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National Technical Information Service
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Compilation and Analysis of State Regulations for SO2, NOX, Opacity, Continuous Monitoring and Applicable Test Methods. Stationary Source Enforcement Series, Volume II

Engineering-Science, Inc., McLean, VA

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Environmental Protection Agency, Washington, DC

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Agency

Office of Enforcement
Washington DC 20460

EPA 340/1-78-009c
July 1978

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Air Enforcement

EPA

Compilation and Analysis of State Regulations for SO_2, NO_x, Opacity, Continuous Monitoring, and Applicable Test Methods

Volume II

Stationary Source
Enforcement Series

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16. ABSTRACT

Current copies of the air pollution control regulations of all fifty states, three territories, and twelve local agencies were reviewed for the purpose of compiling information on emission standards, compliance test methods, and continuous emission monitoring, as applied to existing stationary sources. Specific pollutants of interest were opacity, SO_2, NO_x, and sulfur compounds other than SO_2. The intent of this review was to identify the assortment of types, formats, and exemptions which prevail in existing SIP regulations for selected sources and pollutants, thereby providing guidance to EPA for writing future continuous emission monitoring regulations. This report is not to be used as an all inclusive reference document for such information.

The primary focus of this review and compilation was the following existing source categories:

continued on next page

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
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COMPILATION AND ANALYSIS OF STATE REGULATIONS FOR SO_2, NO_x, OPACITY, CONTINUOUS MONITORING, AND APPLICABLE TEST METHODS

VOLUME II

EPA CONTRACT NO. 68-01-4146

TASK ORDER 40

Presented to

U.S. Environmental Protection Agency
Division of Stationary Source Enforcement
401 M Street, S.W.
Washington, D.C. 20460

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McLean, Virginia 22101

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FOREWORD

This research was performed for the Division of Stationary Source Enforcement (DSSE), Environmental Protection Agency under Task Order No. 40, EPA Contract No. 68-01-4146. Mr. Howard Wright, Compliance Monitoring Branch, Division of Stationary Source Enforcement was the EPA Task Manager.

Because this document is a product of the efforts of many individuals, it is impossible to acknowledge each person who has contributed. However, special recognition is given to the fifty states, three territories, and twelve local agencies who provided the information that served as the foundation of this research.

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APPENDIX A

STATE-ADOPTED OPACITY REGULATIONS FOR EXISTING SOURCES

Of the agency regulations reviewed, all 50 states, 3 territories, and 12 locals were found to have some form of visible emissions limitations for existing sources. For specific details of a particular regulation within a given state, the reader is referred to Volume III of this report which contains the complete text of the regulations cited.

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALABAMA AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.1.1	Stationary Sources		#1 - 20% opacity (#3 - 60% 3 min/hr)		Method 9	
4.9	Coke Ovens (Existing - 5/28/74)					
4.9.3	Charging	≤ 70 batteries > 70 batteries	#1 - 20% opacity >#1 - 20% 3 min/hr >#1 - 20% 4 min/hr		Method 9	
4.9.4	Pushing		#2 - 40% opacity (1 push/hr/battery or two consecutive pushes from 1 battery)		Method 9	
4.9.6	Coke Ovens Doors		No V.E. from more than 15% of doors of battery		Method 9	
4.9.5	Topside Emissions		No V.E. from more than 10% of off-take piping and 5% of charging hole lids.		Method 9	
4.9.8	Combustion Stacks		#1 - 20% opacity >#1 - 20% 3 min/hr		Method 9	
14.2.3	FFFSC (Existing - 8/17/71 except gaseous; or oil without particulate control)	>250 MMBtu		X	Method 9	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALASKA DEPT. OF ENVIRONMENTAL CONSERVATION

DOCUMENTATION:

1. BNA X
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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
18 ACC 50.040	Incinerators		20% opacity (> 20% 3 min/hr.)			
18 ACC 50.050	Industrial processes, fuel burning equip.		20% opacity (> 20% 3 min/hr.)			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ARIZONA STATE DEPT. OF HEALTH

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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
R9-3-301	All Sources(1)		#2 or opacity equivalent to #2		EPA Ref.	(1) Phoenix-Tuscon AQCR - Cement Plant Kilns - 20% opacity, Clinker Coolers - 10% opacity
R9-3-303	Incinerators		20% opacity (>20% 30 min/hr)		EPA Ref.	
	Wood Waste Burners		(>20% 3 min/hr)			
R9-3-304	Fuel Burning Rotary Machinery		>40% 10 consecutive seconds		EPA Ref.	
R9-3-308	Heater-planers (Asphalt pavement reconstruct)		20% opacity (>20% 3 min/hr)		EPA Ref.	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ARKANSAS DEPT. OF POLLUTION CONTROL & ECOLOGY

DOCUMENTATION:

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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
82 Ark Stats. 1901 Section 4	Existing Equip. (Equipment installed or having permit issued 1/30/72)		#2 or equiv. opacity (>#2, 5 min/hr) (<3 times/24 hr)		Standard Smoke Chart	
	New Equip. (Incinerators and fuel burning equip-only)		#1 or equiv. opacity (>#1 but <#3 5 min/hr) (<3 times/24 hrs)			
	New Equip. (Mfg. equip.)		#1 or equiv. opacity			
Section 7	Mfg. Process Equipment		#1 or equiv. opacity		Standard Smoke Chart	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY CALIFORNIA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
E,1,a	All	All	<20% opacity except for 3 min/hr			
E,5,d	Steam Generators	$250 \times 10^6 \frac{Btu}{hr}$		Yes		Additionally CO must be monitored at New Cohers Refinery Boilers and Existing Boilers>10,000 bbl/day

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY COLORADO AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg 1 I.A.1	Stationary Air Contamination Sources (Unless otherwise listed)		20% opacity (40% 3 min/hr)			
Reg 1 I.A.2	Alfalfa Dehydration Plant (Existing - 12/17/75) (New - 12/17/75		40% opacity 20% opacity			
	Pilot Plants		40% opacity (>40% 3 min/hr)			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY CONNECTICUT

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
19508-41	Fuel Burning Equip. (Coal)	All	#1 on Ringelmann* Chart or 20% opacity	Yes 1 Jan. 76		* May be greater for any 5 minutes/hr not to exceed 40% opacity or #2 on Ringelmann
19508-411	Fuel Burning Equip. (liquid or Solid Fuel)	>5 × 10^6Btu/hr in	#1 or 20%*	Yes 1 Jan. 76		
19508-4111	Incinerators	>2,000 lb/hr in	#1 or 20%*	Yes 1 Jan. 76		
19508-41u	Process Source	>25 lb/hr out	#1 or 20%*	Yes 1 Jan. 76		
19508-4u	Fuel Burning Equip. (#6 Residual Oil)	All	#1 or 20%*	Yes 1 Jan. 76		
19508-18a	All Sources	All	#1 or 20%*	Yes 1 Jan. 76		

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY DELAWARE

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. XIV Sect. 2.1	All	All	< 20% or #1 on Ringelmann Smoke Chart < 3 min/hr for no more than 15 min/ 24 hr.	Yes		Extensive CM required following Fed. regulations.
Reg. XX 2.2	Fuel burning equip.	> 250 x 10^6 Btu/hr.	< 20% opacity except may be up to 40% for 2 min. or less per hr.	Yes		
Reg. XX 3.2	Nitric acid plants (new)	All	< 10% opacity	Yes		
Reg. XX 5.2	Asphalt concrete plants (new)	All	< 20% opacity	Yes	Fed. Method	
Reg. XX Sect. 6.2	Sewage treatment plants	All sludge incinerators	< 20% opacity		Fed. Method	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY DEPT. OF ENVIRONMENTAL SERVICES
GOVERNMENT OF THE DISTRICT OF COLUMBIA

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
8-2:713	All	All	0%	Yes*		* If source > 100 tons/yr. 0-20%, 2 min/hr, 12 min/day

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY FLORIDA DEPT. OF POLLUTION CONTROL

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
17-2.04(1)	All sources not otherwise covered	-	#1 or 20% opacity			
17-2.04(6a)	Incinerator	< 50 tons charging	0% (#1 or 20% 3 min/hr) (after 7/1/75)			
17-2.04(6b)	Sulfuric Acid Plants	-	10%			
17-2.04(6e)	FFSG	-	#1 or 20% (#2, 40% 2 min/hr)			
17-2.04(6g)	Nitric Acid Plants	-	10%			
17-2.04(6i)	Carbonaceous fuel burning equipment	< 30 MMBtu/hr	#1 or 20% (#2, 2 min/hr)			
		> 30 MMBtu/hr	#1.5, 30% (#2, 40% 2 min/hr)			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY GEORGIA DEPT. OF NATURAL RESOURCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
391-3-1-.02 2b1)	All facilities except as provided in more restrictive sub-sections of rule		#2 or equiv. opacity (#3 3 min/half hour)		Ringelmann Chart or Approved Equiv.	
2c1)	Incinerators constructed after 1/1/72		#1 or 20% opacity (#3 or 60% 3 min/ half hour)		Ringelmann Chart or Approved Equiv.	
2c2)	Incinerators constructed before 1/1/72		#2 or 40% opacity (#3 or 60% 3 min/half hour)		Ringelmann Chart or Approved Equiv.	
2d3)	Fuel Burning Equipment constructed after 1/1/72		#1 or equiv. opacity (#2 2 min/hr)		Ringelmann Chart or Approved Equiv.	
2h1)	Portland Cement Plants Kiln and all other sources in plant		#1/2 or 10% opacity		Ringelmann Chart or Approved Equiv.	
2i1)	Nitric Acid Plants Constructed after 1/1/72		10% opacity		Ringelmann Chart or Approved Equiv.	
2j1)	Sulfuric Acid Plants Constructed after 1/1/72		10% opacity		Ringelmann Chart or Approved Equiv.	
212)	All Conical Burners		#2 or equiv. opacity		Ringelmann Chart or Approved Equiv.	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY HAWAII DEPT. OF HEALTH

DOCUMENTATION:

1. BNA X
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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Sec. 8	Existing Sources (3/21/72)		#2 or 40% opacity (#3 or 60% 3 min/hr)		EPA Ref.	
	New Sources (3/21/72)		#1 or 20% opacity (#3 or 60% 3 min/hr)		EPA Ref.	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY IDAHO DEPT. OF HEALTH & WELFARE

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
D. Sec. 3	Orchard Heating Device		#2			
E. Sec. 2	Existing sources (10/25/72)		#2 40% opacity (> #2 3 min/hr.)			
Sec. 3	New sources (10/25/72)		#1 20% opacity (> #1 3 min/hr.)			
P. Sec. 2	Wigwam burners		#1 or equiv. opacity (> #1 3 min/hr.)			
NSPS	NSPS - 10/10/75					
U. Sec. 3A	FFSG	250 MMBtu/hr	20% opacity (40% 2 min/hr.)	(1)		(1) Liquid and solid fuel.
U. Sec. 3C	Portland Cement Plants		10% opacity			
U. Sec. 3D	Nitric acid Plants		10% opacity			
U. Sec. 3E	Sulfuric acid plants		10% opacity			
U. Sec. 3F	Petroleum refineries FCCU catalyst regenerator, incinerator-waste heat boiler, fuel gas combustion devices		30% opacity (> 30% 3 min/hr.)	(2)		(2) C/M for catalyst regen.
U. Sec. 3H	Secondary lead smelters blast or reverb. furnace		20% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY IDAHO DEPT. OF HEALTH & WELFARE

DOCUMENTATION:

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U. Sec. 3H (Cont.)	Pot furnace	> 550 lbs. charging capacity	10% opacity			
U. Sec. 3I	Secondary brass and bronze ingot production plants Electric furnace	> 2,200 lb. production	10% opacity			
	Reverb. Furnace	> 2,200 lb. production	20% opacity			
	Blast Furnace	> 550 lb/hr. production	10% opacity			
U. Sec. 3K	Sewage treatment plants Sludge incinerator		20% opacity			
U. Sec. 3M	Sulfite pulp mills Recovery furnace stack			(1)		(1) CM required but no opacity standards set.
U. Sec. 3L	Kraft Pulp Mills Recovery furnace stack			(1)		

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ILLINOIS EPA

DOCUMENTATION:

1. BNA X
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Rule 202	Fuel Combustion Sources (New - April, 1972)	>250 MMBtu	20% opacity (40% 3 min/hr 3 times/day)		"Visible Observations"	
	Portland Cement Plants (New - April, 1972)		10% opacity		"Visible Observations"	
	All Other Emission Sources		30% opacity (60% 8 min/hr 3 times/day)		"Visible Observations"	
	By-Product Coke Ovens		30% opacity for no more than 15 sec per oven charging operation		"Visible Observations"	
	Coke Quench Tower		30% opacity		"Visible Observations"	
	Coke Oven		30% opacity for no more than 10 min. after start of coking cycle.		"Visible Observations"	
	All Grain Handling Operations		No V.E.		"Visible Observations"	
Rule 207	Nitric Acid Manufacturing		5% opacity		"Visible Observations	

>202

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY INDIANA AIR POLLUTION CONTROL BOARD

DOCUMENTATION:

1. BNA X
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4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC-3	All sources		#2, 40% opacity (>40% 15 min/day) (60% during fire starting 10 min/day) (60% blowing tubes 5 min/hr - 6 times per day)		Method 9	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY IOWA

DOCUMENTATION:

1. BNA
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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.3(2)d	All	All	#2 on Ringelmann or <40% opacity		State Method	
4.4(12)	Incinerators (Existing)		#2 on Ringelmann or <40% opacity except 3 min/hr where must not exceed #3 on Ringelmann or 60% opacity		State Method	
7.1(1)	Coal Fired Steam Generator	$>250 \times 10^6 \frac{Btu}{hr}$		Yes	State Method	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY KANSAS STATE DEPT. OF HEALTH

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28-19-31 B)	New Indirect Heating - 1/1/72		20% opacity			
	Existing Indirect Heating Equip - 1/1/72		40% opacity			
28-19-41 B)	Incinerators		20% opacity			
28-19-50 A)	Processing of Materials (Existing - 1/1/72)		40% opacity			
	Processing of Materials (New - 1/1/72)		20% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY KENTUCKY DIV. OF AIR POLLUTION

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401-KAR-3:060	EXISTING SOURCES					
Sec. 2	Incinerators (4/9/72)	>2.5 ft^3 capacity	20% opacity		EPA Ref.	
	Wood Waste Incinerators	>2.5 ft^3 capacity	40% opacity		EPA Ref.	
Sec. 3	Indirect Heat Exchangers	>50 MMBtu/hr(1)	20%-40% opacity(2) (40%-60% 2-6 min/hr(2)	X (>250 MMBtu) (Except gas)	EPA Ref.	(1) For gas, LPG, & distillate >1 MMBtu/hr for other fuels (2) Different regions of state
Sec. 4	Process Operations		40% opacity		EPA Ref.	
Sec. 7	Sulfuric Acid Plants (4/9/72)		20% opacity		EPA Ref.	
Sec. 16	Nitric acid Plant (4/9/72)		10% opacity		EPA Ref.	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY LOUISIANA AIR CONTROL COMMISSION

DOCUMENTATION:

1. BNA _____
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Sec. 18.2	Combustion Unit		#1 or equiv. opacity[1] >#1 or equiv. opacity 4 min/hr[2]		Ringelmann or Method 9	[1]Does not apply in unpopulated areas of state. [2]Cleaning fire box, building new fire, soot blowing or lancing, charging incinerator, equip. changes, ash removal and rapping of precipitators.
Sec. 18.3	Flares for pressure valve releases and for control over process upsets		#1 6 hrs/ten consecutive days[3]		Ringelmann or Method 9	[3]Notification required if upset cannot be controlled in six hours.
Sec. 19.5.1	All sources except FCCU Incinerator - Waste Heat Boilers		20% opacity >20% 4 min/hr		Ringelmann or Method 9	
	FCCU Incinerator - Waste Heat Boilers		30% opacity >30% 3 min/hr		Ringelmann or Method 9	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MAINE (1977)

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
601	Incinerators (All constructed after 31 Jan. 1972)		#1 on Ringelman Chart	No	1, 3, 5 Fed. Ref.	
601	Incinerators (All existing, except existing wood waste teepee incinerators, by 1 June 1975)		#1 on Ringelman Chart	No	1, 3, 5 Fed. Ref.	
601	Incinerators (All Existing wood waste teepee incinerators by 1 June 1980)		#1 on Ringelman Chart	No	1, 3, 5 Fed. Ref.	
598	All	All	<40% opacity or #2 Ringelmann (except for 5 min/hr or 15 min/3 cons. hrs)			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MARYLAND

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
10.03.36.02 10.03.37.02 10.03.40.02 10.03.41.02	Existing installations*	All	20%		State of Md. Rules	20-40%, 4 min/hr
10.03.38.02 10.03.39.02	Existing installations*	All	No visible emissions to human observer		State of Md. Rules	0-40%, 4 min/hr
10.03.38.02	Coke ovens	All	No visible emissions to human observer			

*State standard varies for different "Areas" of state

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MASSACHUSETTS

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.2.1	Fossil Fuel Utilization Facilities (after 1 April 73)	10 x 10^6 Btu/hr.	#1 Ringelmann Chart	Yes 1 April 73	Method approved by Director	Alarm equipped.
4.2.1	Fossil Fuel Utilization Facilities (prior to 1 April 73)	10 x 10^6 Btu/hr.	#1 Ringelmann Chart	Yes* 1 April 73	"	* Director may require monitoring.
6.1	Stationary Source Other than Incinerator	All	#1 Ringelmann Chart for <6 min/hr not to exceed #2 Ringelmann Chart		"	
6.2	Incinerators	All	Not to exceed #1 on Ringelmann Chart		"	

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DOCUMENTATION:

1. SNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
R336.41	All Sources		#1 or 20% opacity (#2 or 40% 3 min/hr - 3 times per day)		Ringelmann Chart or Smoke Reading	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC4-C	Indirect Heating Equipment (Existing - 1/24/77)		20% opacity (60% 4 min/hr; 40% 4 additional min/hr)		Method 9	
APC4-D	Indirect Heating Equipment (New - 1/24/77)	>250 MMBtu/hr	20% opacity (40% 2 min/hr)		Method 9	
		<250 MMBtu/hr	20% opacity (60% 4 min/hr; 40% 4 additional min/hr)			
APC5-C	Industrial Process Equipment (Pre 7/9/69)		20% opacity (60% 4 min/hr; 40% 4 additional min/hr)		Method 9	
APC5-D	Industrial Process Equipment (Post 7/9/69)		20% opacity		Method 9	
APC7-B	Incinerators (Existing - 8/17/71)		20% opacity (40% 4 min/hr)		Method 9	
	Incinerators (New - 8/17/71)		20% opacity		Method 9	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X(Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC11-B	Existing Facilities[1] - 1976		20% opacity (40% 4 min/hr)		Method 9	[1]Any facility not otherwise regulated
APC11-C	New Facilities[1] - 1976		20% opacity		Method 9	
APC12-F	Stationary Internal Combustion Engines		20% opacity for 10 consecutive sec		Method 9	
APC15-C	Sulfuric Acid Plants (New - 8/17/71)		10% opacity		Method 9	
APC16-B&C	Nitric Acid Plants (All)		10% opacity		Method 9	
APC22-B	Portland Cement Plants (Existing - 8/17/71)		20% opacity (40% 4 min/1/2 hr 60% 4 min/hr)		Method 9	
APC22-C	Portland Cement Plants (New - 8/17/71)				Method 9	
	Kiln		20% opacity			
	Clinker Cooler		10% opacity			
APC23-B	Asphalt Concrete Plants (Existing - 6/11/73)		20% opacity (40% 4 min/1/2 hr 60% 4 min/hr)		Method 9	
APC23-C	Asphalt Concrete Plants (New - 6/11/73)		20% opacity		Method 9	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC24-B	Petroleum Refineries (Existing - 6/11/73)					
	FCCU Catalyst Regen. and Incinerator-Waste Heat Boiler		30% opacity (>30% 3 min/hr and >30% during soot blowing)	See Comment (1)	Method 9	(1) Catalyst Regen. for refinery >20,000 bbls per day fresh feed
	Indirect Heating Equipment		20% opacity (60% 4 min/hr 40% 4 additional min/hr)		Method 9	
APC24-C	Petroleum Refineries (New - 6/11/73)					
	FCCU Catalyst Regen. and Incinerator-Waste Heat Boiler		30% opacity (>30% 3 min/hr)	See Comment (2)	Method 9	(2) Catalyst Regenerator
	Indirect Heating Equipment		20% opacity (60% 4 min/hr 40% 4 additional min/hr)			
	Steam Generating Unit		20% opacity (40% 2 min/hr)		Method 9	
APC25-B	Secondary Lead Smelter				Method 9	
	Blast or Reverb. Furnace		20% opacity			
	Pot Furnace	>550 lb capacity	10% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. RNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC26-B	Secondary Brass and Bronze Ingot Production Plants				Method 9	
	Reverb. Furnace		20% opacity			
	Electric Furnace	2,205 lbs capacity	10% opacity			
	Blast Furnace	<550 lbs capacity	10% opacity			
	Electric Furnace	2,205 lbs capacity	20% opacity			
	Blast Furnace	<550 lbs capacity	20% opacity			
APC28-B	Sewage Sludge Incinerators (Existing - 6/11/73		20% opacity (40% 4 min/hr)		Method 9	
APC28-C	Sewage Sludge Incinerators (New - 6/11/73)		20% opacity		Method 9	
APC32-C	Direct Heating Equipment[1]		20% opacity (60% 4 min/hr 40% 4 additional min/hr)		Method 9	[1] Any direct heating equipment not otherwise regulated.

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MISS. AIR & WATER POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X (Most Recent)
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Sec. 3 1)	All Sources		Ring. #2(1) (>#2 15 min/hr 3 times/day - start-up) (#3 10 min/10^9 Btu/ day - soot blowing)		Ringelmann Chart	(1) Also 40% opacity

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MISSOURI DEPT. OF NATURAL RESOURCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
10-CSR 10-2.060	All Sources		#1 or equiv.opacity (#3 6 min/hr) (1)	X 7/11/78(2)(3)	Opacity - Ringelmann Chart	(1) Except incinerators (2) Except multi-outlet portland cement plant kiln baghouses, and coal boilers w/FGD (3) Required for FBCCU catalyst regenerators, coal boilers >250MMBtu/hr, and portland cement kilns
10-CSR 10-3.040	New Incinerators - 9/18/70		#1 or equiv.opacity			
	Existing Incinerator - 9/18/70		#2 or equiv.opacity (>#2 6 min/hr)			
	Teepee Burners		#1 or equiv.opacity (>#1 for 30 min. fire starting)			
10-CSR 10-3.080	All sources - Existing 2/24/71 New 2/24/71 All		#2 or equiv.opacity #1 or equiv.opacity #3 6 min/hr	X 7/11/78(2)(3)		
10-CSR 10-4.060	All sources - Existing 9/24/69 New 9/24/69 All		#2 or equiv.opacity #1 or equiv.opacity #3 6 min/hr (1)	X 7/11/78(2)(3)		
10-CSR 10-5.090	All Sources		#1 or equiv.opacity #2 6 min/hr	X 7/11/78(2)(3)		
	Existing Sources (Except Incinerators	<25 lbs/hr particulate	#2 or equiv.opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY MONTANA DEPT. OF HEALTH AND ENVIRONMENTAL SCIENCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16-2.14 (6) S 1420 6)	Incinerators		#1/2 or 10% opacity		Method 9	
16-2.14 (1) S 1460 1a)	All installations except existing incinerators and existing wood waste burners and the transfer of molten metal		#2 or equiv. opacity (#3 4 min/hr)		State Approved Methods	
2a)	All single sources of emissions		#1 or equiv. opacity (#3 4 min/hr)		State Approved Methods	
16-2.14 (1) S 14030 2a)	Wood Waste Burners		Can't exceed #1 opacity except 4 min/hr		State Approved Methods	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEBRASKA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 13	All	All	<20% opacity or Ringelmann #1		Fed Method or those specified by Director	
Rule 17, (3)	Fossil Fueled Steam Generator	>250 x 10^6 Btu/hr		Yes*		* Follows federal specifications detailed by Fed. Method.

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA

DOCUMENTATION:

1. BHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Article 4.1	All	All	<20% opacity except for 3 min/hr	Fed. Reg.	Electronic Detector	
Article 6.2	Incinerators	All	<20% opacity except for 1 min/hr	Fed. Reg.	Fed. Methods	
16.1.2	Fossil Fuel Burning Steam Generators (New source)	> 250 x 10^6 Btu/hr	<20% opacity except may be up to 40% opacity for up to 2 min/hr	Fed. Reg.	Fed. Methods	
16.3.3.1.	Kiln (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	
16.3.3.2	Clinker cooler (New)	All	<10% opacity	Fed. Reg.	Fed. Methods	
16.3.3.3.	All other facilities (New)	All	<10% opacity once facility has passed performance test	Fed. Reg.	Fed. Methods	
16.4.2	Nitric Acid Plants (New)	All	<10% opacity	Fed. Reg.	Fed. Methods	
16.5.3	Sulfuric Acid Plant	All	<10% opacity	Fed. Reg.	Fed. Methods	
16.6.2	Asphalt Concrete Plant (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	
16.7.2	Petroleum Refineries (New)	All	<20% opacity except for 3 min/hr	Fed. Reg.	Fed. Methods	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA (CONTINUED)

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16.9.2.1	Secondary Lead Smelters (prior to performance test) (new)	>550 lb charging capacity	<20% opacity	Fed. Reg.	Fed. Methods	
16.9.2.2	Secondary Lead Smelters (after performance test) (new)	>550 lb charging capacity	<10% opacity	Fed. Reg.	Fed. Methods	
16.10.2	Secondary Brass & Bronze Plants (New)	Reverberatory or electric furnaces >2205 lb production blast furnace >550 lb production	<20% prior to performance test 10% after performance test	Fed. Reg.	Fed. Methods	
16.11.2	Iron & Steel Plant (New)	All	<20% opacity except for 3 min/hr	Fed. Reg.	Fed. Methods	
16.12.2	Sewage Treatment Plant (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	
16.13.2	Primary Copper Smelters (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	
16.14.2	Primary Zinc Smelter (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	
16.15.2	Primary Lead Smelter (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	
16.16.2	Primary Aluminum Reduction Plant (New)	All	<20% opacity	Fed. Reg.	Fed. Methods	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA (CONTINUED)

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16.22.1.2	Coal Preparation Plant (New)	>200 short ton/day production	<20% opacity(part) prior to performance test <10% opacity(part) after performance test	Fed. Reg.	Fed. Methods	
16.22.1.4	Coal Preparation Plant (New)	>200 ton/day production	<20% opacity for gases	Fed. Reg.	Fed. Methods	
16.23.1	Ferroalloy Production Facilities (New)	All	<15% opacity	Fed. Reg.	Fed. Methods	
16.24.	Steel Plants (New)	All	<10% opacity after performance test	Fed. Reg.	Fed. Methods	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW HAMPSHIRE

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 4 III 1.A	Fuel burning equip. existing	All	< #2 on Ringelmann Chart			
Reg. 4 III 1.B	Fuel burning equip. new	All	< #1 on Ringelmann Chart			
Reg. 4 III 2.	Steam generators	All	< 20% opacity except 2 min/hr may be up to 40% opacity			
Reg. 6 VI A	Incinerators (new)	All	< 20% opacity except for 3 min/hr.		Fed. Reg. Method #9	
Reg. 6 VII	Incinerators (existing)	All	< 20% opacity except for 3 min/hr.		Fed. Reg. Method #9	
Reg. 7 IV	Wood waste burners	All	< #2 on Ringelmann Chart except for 3 min/hr.			
Reg. 8 III	Asphalt Plants (old)	All	< #1 on Ringelmann Chart			
Reg. 8 IV.B.	Asphalt Plants (new)	All	< 20% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW HAMPSHIRE

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 14 III.C-1	Secondary lead smelters (blast furnaces)	All	< 20% opacity			
Reg. 14 III.C-2	Secondary lead smelters (electric furnaces)	All	< 10% opacity			
Reg. 14 III.D-1	Brass or bronze ingot production (reverbatory furnace)	> 1,000 Kg production	< 20% opacity			
Reg. 14 III.D-2	Brass or bronze ingot production	> 1,000 Kg production electic furnace	< 10% opacity			
		> 250 Kg/hr. blast furnace	< 10% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW JERSEY

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
7:27-3.2b	Indirect Heat Exchanger	>200 x 10^6 Btu/hr	<20% opacity		Methods specified by Director	
7:27-11.3b	Incinerators		≤#1 on Ringelmann Chart except for 3 min/30 min but cannot exceed #2 on Ringelmann chart		Methods specified by Director	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
401	All sources (unless otherwise specified)		#1 (>#1 1 min/30 min)		Ringelmann Chart	
402	Woodwaste burner		20% opacity (>20% during 1st hour of daily oper) (not >40% during daily burndown)		Ringelmann Chart	
402	Contingency use woodwaste burner		40% opacity		Ringelmann Chart	
506	Non ferrous Smelters - Fire Refining Furnace		20% opacity (40% during first 30 min. of poling process)		Ringelmann Chart	
625	Petroleum Processing Facility (Existing - 7/1/74)	Cat. Cracker	40% opacity (<60% 15 min/day)		Ringelmann Chart	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW YORK

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 214.3	By Product Coke Oven Batteries	All	#1 on Ringelmann or ≤20% opacity except for 3 min/hr		State of New York	
Section 219.5	Incinerators (after 26 Jan 1967)	All	<20% opacity or #1 on Ringelmann		Isokinetic Methods approved by Commissioner	
Section 219.5	Incinerators (prior to 26 Jan 1967)	All	<40% opacity or #2 on Ringelmann		Isokinetic Methods approved by Commissioner	
Section 220.4	Portland Cement Process (Existing)	All	#1 on Ringelmann or <20% opacity except 3 min/hr		Isokinetic Methods approved by Commissioner	
Section 220.4	Portland Cement Kiln or Clinker cooler (after 30 Dec 1980)	All	<10% opacity	Yes, records retained for 3 yrs	Isokinetic Methods approved by Commissioner	
Section 220.5	Portland Cement Process (New)	All	<10% opacity except for 3 min/hr	Yes, records retained for 3 yrs	Isokinetic Methods approved by Commissioner	
Section 224.3	Nitric Acid Plant	All	<10% opacity except for 3 min/hr		Isokinetic Methods approved by Commissioner	
Section 224.3	Sulfuric Acid Plant	All	<10% opacity except for 3 min/hr		Isokinetic Methods approved by Commissioner	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW YORK (CONTINUED)

DOCUMENTATION:

1. BNA
2. RULES & REGS
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 227.4	Stationary Combustion Installations	All	#2 on Ringelmann or <40% opacity at all times and <20% opacity except 3 min/hr or #1 on Ringelmann	Yes, if >250 x 10^6 Btu/hr (if burn gas not necessary)	State of New York	
Section 211.3	Any Air Contamination Source	All	20%		State of New York	> 20%, 3 min/hr

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY N. CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
0521	All Sources (Existing - 7/1/71) (New - 7/1/71)		#2, 40% opacity (>#2, 40% 5 min/hr or 20 min/day) #1, 20% opacity (>#1, 20% 5 min/hr or 20 min/day)		Ringelmann Chart or Approved Equiv.	

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY N. DAKOTA STATE DEPT. OF HEALTH

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
3.100	Existing Installations(1)		#2 or equiv.opacity #3 4 min/hr		Ringelmann Chart	(1) Except Incinerators
3.200	New Installations and all Incinerators		#1 or equiv.opacity #3 4 min/hr			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY OHIO EPA

DOCUMENTATION:

1. BNA X
2. RULES & REGSX (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
3745-17-07	All single sources of emission		#1 or 20% opacity #3 or 60% 3 min/hr		Ringelmann Chart	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY OKLAHOMA AIR QUALITY SERVICE

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. No. 5	Incinerator		#1 or equiv. opacity (#3 5 min/hr but no more than 20 min/day)			
Reg. No. 7	All Sources		#1 or 20% opacity (#3 or 60% 5 min/hr, no more than 20 min/day)			
16.311	Sulfuric Acid Plants (New - after 12/1/74)		#1/4 or 5% opacity			
16.32	Fuel Burning equip. (New - after 12/1/74)	>250 MMBtu/hr		X(1)	CFR 466.26	(1) No emission standard but C/M required
18.22	New Nitric Acid Plants (After 12/14/71)		No V.E.			
Bulletin 0550	Petroleum Refineries FBCCU Catalyst Regen. >20,000 bbls/day			X(2)		(2) No standard but C/M required

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY OREGON DEPT. OF ENVIRONMENTAL QUALITY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
340-21-015	All Sources (Existing - 6/1/70)		40% opacity (>40% 3 min/hr)			
	All Sources (New - 6/1/70 and existing in special control areas)		20% opacity (>20% 3 min/hr)			
340-25-020	Wigwam Wood Waste Burners		20% opacity (>20% 3 min/hr)			
340-25-165	Kraft Pulp Mills					
	Recovery Furnace			X		
340-25-265	Primary Aluminum Plants (New - 1/1/73)		10% opacity			
	Primary Aluminum Plants (Existing - 1/1/73		20% opacity			
340-25-315	Veneer Dryers		10% avg. opacity 20% max. opacity			
340-25-415	Laterite Ore Production of Ferronickel		20% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY PENNSYLVANIA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
123.41	All	All	< 20% opacity except for 3 min/ hr. where can go as high as 60%		Methods approved by department	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY PUERTO RICO ENVIRONMENTAL QUALITY BOARD

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
5.1.1 A)	Stationary Sources		#1 or 20% opacity		Ringelmann Chart	
5.1.1 B)	Stationary Sources		#3 or 60% opacity 4 min/30 min		Ringelmann Chart	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY RHODE ISLAND

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 1	All	All	20% opacity, except for 3 min per hour >20%		Fed. Ref.	* if: (1) All units burn #6 residual oil or solid fuel (2) Liquid fuel burned and > 5×10^6 Btu/hr. heat input
Reg. 6	Fossil fuel fired steam or hot water generators liquid fuel	> 5×10^6 Btu/hr.		Yes* 22 Feb. 77		
Reg. 6	Fossil fuel fired steam of hot water generators (#6 residual oil)	All		Yes* 22 Feb. 77		

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY S. CAROLINA DEPT. OF HEALTH & ENVIRONMENTAL CONTROL

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Std. No. 1	All Sources (Existing - 2/11/71)		#2 (#3 5 min/hr or 20 min/day)			
	(New - 2/11/71)		#1 (#3 5 min/hr or 20 min/day)			
Std. No. 2 Sec. 1	FFSC[1]	>250 MMBtu		X 6/14/78[1]	40 CFR, Part 60	(1) Regs. have list of exemptions - See Regs.
Std. No. 4	Incinerators		#1 (#1 3 min/hr or 15 min/day)			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY S. DAKOTA DEPT. OF ENVIRONMENTAL PROTECTION

DOCUMENTATION:

1. DNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
34:10:03:01	All Sources		#1 or 20% opacity (#) or 60% 3 min/ hr)			
34:10:03:04	Wood Waste Burners		>#1 or 20% (1) 1 hr/24 hr			(1) Only during startup, building, and shutdown of fire
34:10:06:01	Incinerators		#1 or 20% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY TENNESSEE DIVISION OF AIR POLLUTION CONTROL

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
1200-3-5-.01	All Air Contaminant Sources		>#1 or 20% opacity 5 min/hr or 20 min/24 hr		Ringelmann Chart or Equivalent Opacity	Sec. 1200-3-5-.02 lists exceptions to standard for upsets, etc.
1200-3-5-.05	"Certain Existing Sources"		>#2 or 40% opacity 5 min/hr or 20 min/24 hr	X (2/9/77)		Several conditions to this rule. See regulations.

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY TEXAS AIR CONTROL BOARD

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
131.03.03.001	Stationary Flue (Existing - 1/31/72)		30% opacity (5 min avg.) (>30% 5 min/hr; 6 hrs/ten days)		State Method	
	Stationary Flue (New - 1/31/72)		20% opacity (5 min avg.) (>20% 5 min/hr; 6 hrs/ten days)		State Method	
.002	Waste gas flare		No. V.E. except 5 min/2 hrs.		State Method	
.000	Stationary Flue	>100,000 acfm	15% opacity unless C/M installed (5 min. avg.)	X	State Method	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY UTAH STATE BOARD OF HEALTH

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
2.2.1	All existing single sources except incinerators and internal combustion engines. (Existing sources - constructed prior to 4/25/71)		#2 or 40% opacity			
2.2.2	Incinerators or new installations (New installation - construction which began after 4/25/71) except internal combustion engines		#1 or 20% opacity			
2.2.3	Stationary Internal Combustion Engines		No. V.E. except 3 min/hr			
2.2.4	Stationary Diesel Engines		#1, 20% except 3 min/hr (Mfg. after 1/1/73)			
2.2.5	Stationary Diesel Engines		#2, 40% except 3 min/hr (Mfg. prior to 1/1/73)			

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY VERMONT

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
5-211, 1	Installations constructed prior to 30 April 70	All	< 40% opacity except for 6 min/hr but must be less than 60% opacity at all times		Fed. Methods	
5-211, 2	Installations constructed after 30 April 70	All	< 20% opacity except for 6 min/hr but must be less than 60% opacity at all times			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGINIA

DOCUMENTATION:

1. BNA X
2. RULES & REGS
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.04	Fossil fuel fired steam generators (exist)	> 250 x 10^6 except where gas is only fuel or where gas and oil is burned and units do not require particulate collectors to be in compliance with opacity rules		Yes	Fed. Ref. Method #9	
4.04	Catalyst regenerators for fluid bed catalytic cracking units	> 20,000 barrels/ day of fresh feed		Yes		
Rule Ex. 2 4.20	All	All	< 20% opacity			
Rule Ex. 9 4.91	By product coke ovens	All except beehive coke ovens	< 20% opacity			
Rule NS 1 5.12	All (new)	All	< 20% opacity			
5.04	Fossil fuel fired steam generators (new)	250 x 10^6 Btu/hr.		Yes		
5.04	Petroleum refineries new fluid bed catalytic cracking units	All		Yes		

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGIN ISLANDS DEPARTMENT OF HEALTH

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
204-22 a)	All Existing Single Sources of Emissions		#2 or equivalent opacity		Ringelmann Chart or USPS Smoke Inspection Guide	
204-22 b)	All New Single Sources of Emissions		#1 or equivalent opacity		Ringelmann Chart or USPS Smoke Inspection Guide	
204-22 c)	Any Single Source of Emissions		#2 or equivalent opacity 6 min/hr		Ringelmann Chart or USPS Smoke Inspection Guide	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY WASHINGTON STATE DEPT. OF ECOLOGY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
WAC-18-52-031	Primary aluminum plants		> 20% opacity max. 3 min/hr.			
WAC-173-400-040	All sources		20% opacity (> 20% 15 min/8 hr)			
WAC-173-400-070	Hog fuel boilers		20% opacity (> 20% 15 min/4 hr)			
	Catalytic cracking units		40% opacity (> 40% 3 min/hr)			
WAC-173-405-036	Kraft Pulping Mills		> 35% opacity no more than 6 min/hr.	12/28/76		(1) Interim standard
WAC-173-410-036	Sulfite Pulping Mills		> 35% opacity no more than 6 min/hr.	12/28/76		(1) Interim standard
WAC-400-090	FFFSG	> 250 MM Btu/hr.		X (2)		(2) Except gas fuel
	FBCCU catalyst regen.	> 20,000 bbls/day		X		
	Wood-residue FSG	> 100 MM Btu/hr.		X		

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY WEST VIRGINIA

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Series V Section 2.0	All	All	< #1 on Ringelmann Chart except for 5 min/hr. where can be up to #3 on Ringelmann Chart		As specified by director	
Series VI Section 4.0	Incinerators	All	< #1 on Ringelmann Chart except for 6 min/hr. where can be up to #3 Ringelmann Chart		"	
Series III Section 2.0	Hot mix asphalt plant	All	< #1 on Ringelmann Chart except for 4 min/hr. where can be up to #3 on Ringelmann Chart		"	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY WISCONSIN DIVISION OF ENVIRONMENTAL PROTECTION

DOCUMENTATION:

1. FNA x
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
NR 154.11 (6)	All Sources Constructed After 4/1/72		#1 or 20% opacity (#4 or 80% 5 min/hr; 3 time/day)		Ringelmann Chart	
	All Sources Constructed After 2/1/75					
	Asphalt Concrete Plants		20% opacity		Ringelmann Chart	
	Petroleum Refineries		30% opacity (>30% 3 min/hr)			
	Lead Smelters:					
	Blast, Cupola, reverb. furnaces		20% opacity		Ringelmann Chart	
	Pot Furnaces	>550 lbs charging capacity	10% opacity		Ringelmann Chart	
	Brass & Bronze Ingot Production:					
	Reverberatory Furnaces	>2,205 lbs/hr	20% opacity		Ringelmann Chart	
	Electric Furnaces	>2,205 lbs/hr	10% opacity			
	Blast or Cupola Furnaces	550 lbs charging capacity	10% opacity			
	Sewage Sludge Incinerators		20% opacity		Ringelmann Chart	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY WISCONSIN DIV. OF ENVIRONMENTAL PROTECTION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

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REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
NR 154.11 (6)	All Sources Constructed Before 4/1/72		40% opacity (80% 5 min/hr; 3 times/day)		Ringelmann Chart	Two AQCRs require 20% opacity.
NR 154.17 (4)	Gasoline Internal Combustion Engines >25 hp		No visible emission for greater than 5 miles		Ringelmann Chart	
	Diesel Engines		40% 5 min/30 min Never >80%		Ringelmann Chart	

OPACITY EMISSION STANDARD / CM REQUIREMENTS

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AGENCY WYOMING DEPT. OF ENVIRONMENTAL QUALITY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Chap. I Sec. 14	All new sources		20% opacity (40% 6 min/hr.)			
	All existing sources		40% opacity			Excludes existing incinerators
	Diesel engines below 7,500 ft. elevation		30% opacity (> 30% not longer than 10 consecutive seconds)			
	New sources where fuel burning equip. is used for indirect heating		20% opacity (40% 2 min/hr.)			
	Incinerators		20% opacity			
	Wood waste burners		20% opacity (> 20% 6 min/hr.)			Opacity can be exceeded not more than 60 min/8hrs. during start up and building of fires

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALLEGHENY COUNTY HEALTH DEPARTMENT

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
1809.1 A)	All Sources[1]		#1 or equivalent opacity <#1 or equivlent opacity 3 min/hr		Any Procedure Approved by Director	[1]1809.1 B lists a series of exceptions. See Regulations
1809.5 C)	Incinerators		#1 or equivalent opacity		Any Procedure Approved by Director	
1809.7 A)	Coke Oven - Pushing & Charging		#1 or equivalent opacity		Any Procedure Approved by Director	
1809.7 C)	Coke Oven - Topside of Battery		No V.E.[2]		Any Procedure Approved by Director	[2]Except during charging.
1809.7 D)	Coke Oven		No V.E.[3]			[3]Except 10% of ovens at any given time.
1810.5 A)	Blast Furnace Slips[4]		Not to exceed 60 times/12 months or 10 times/30 days		Any Procedure Approved by Director	[4]Blast Slip - V.E. greater than #2 or equivalent opacity

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:
1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 2, Div. 3 Chap. 1 3110	All Sources		#1 opacity (>#1 3 min/hr.)		Ringelmann Chart or Reg.2 Div. 7 Chap 6	
Reg. 2 Div. 4 Chap. 1 4111	Incinerators		#1 opacity (>#1 3 min/hr.)		Ringelmann Chart or Reg.2 Div. 7 Chap 6	
Reg. 2 Div. 5 Chap. 1 5111	Heat Transfer Operations		#1 opacity (#3 6 min/day/10^9 Btu)[1] (>#1 3 min/hr.)[2]		Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	[1]Sources >140 MMBtu/hr. during soot-blowing of oil-fired heat transfer operation.
Reg. 2 Div. 6 Chap. 1 6111	General Combustion and Operations		#1 opacity (>#1 3 min/hr.)		Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	[2]All other heat transfer operations.
Reg. 2 C/M Amendment	CO Boilers of Fluid Bed Catalytic Cracker Regenerators			X 3/3/77	Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	
	CO Boilers of Fluid Cokers Regenerators	Feed Rate >10,000 bbls/day		X 3/3/77	Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	
	FFFSG	>250 MMBtu/hr		X 3/3/77		

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:
1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 2, Div. 1 Chap. 1 3110	All Sources		#1 opacity (>#1 3 min/hr.)		Ringelmann Chart or Reg.2 Div. 7 Chap 6	
Reg. 2 Div. 4 Chap. 1 4111	Incinerators		#1 opacity (>#1 3 min/hr.)		Ringelmann Chart or Reg.2 Div. 7 Chap 6	
Reg. 2 Div. 5 Chap. 1 5111	Heat Transfer Operations		#1 opacity (#3 6 min/day/10^9 Btu)[1] (>#1 3 min/hr)[2]		Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	[1]Sources >140 MMBtu/hr. during soot-blowing of oil-fired heat transfer operation.
Reg. 2 Div. 6 Chap. 1 6111	General Combustion and Operations		#1 opacity (>#1 3 min/hr.)		Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	[2]All other heat transfer operations.
Reg. 2 C/M Amendment	CO Boilers of Fluid Bed Catalytic Cracker Regenerators			X 3/3/77	Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	
	CO Boilers of Fluid Cokers Regenerators	Feed Rate >10,000 bbls/day		X 3/3/77	Ringelmann Chart or Reg. 2 Div. 7 Chap. 6	
	FFFSG	>250 MMBtu/hr		X 3/3/77		

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY BOSTON

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. #4	Fuel burning equipment	> 5 x 10^5 Btu/hr.	#2 on standard smoke scale		ASTM	

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY CHICAGO DEPT. OF ENVIRONMENTAL CONTROL

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
17.2.3 a)	All sources		#1.5 or equiv. opacity (#2 4 min/ 30 min.) (#3 4 min/ 1 hr.(1))		Smoke reading Ringelmann Chart	(1) Soot blowing, etc.

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY DADE COUNTY

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
24-15	All	All	< #2 on Ringelmann Chart except for 3 min/hr.			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY DENVER

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
.5-1	All	All	< 20% opacity except for 3 min/hr.			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY JEFFERSON CO. AIR POLLUTION CONTROL DISTRICT
(KENTUCKY)

DOCUMENTATION:
1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. V Sec. 2 3) b) i)	Process Operation	1000 lb/hr[1]	20% opacity		EPA Ref.	[1]If a series of restrictions apply.
Reg. V Sec. 4 3) b)	Indirect Heat Exchanger		20% opacity			
3) c) i)	Indirect Heat Exchanger		<40% opacity 10 min/60 min[2]			[2]During soot-blowing, fire box cleaning, or new fire building.
3) c) ii)	Indirect Heat Exchanger a) Waterwall Spreader Stoker		80% - 1st 30 min[3] 60% - Next hr[3] 40% - Next 2.5 hr[3]			[3]During start-up operation
3) c) iii)	Indirect Heat Exchanger All Other Waterwall Units		40% - any 30 min period during start-up.			
Reg. V Sec. 5 3) b)	Incinerators		20% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY PHILADELPHIA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. II Section IV	All except incinerators	All	< #1 on Ringelmann Chart except for 3 min/hr. which may be up to #3 on Ringelmann Chart			
Reg.II Section III	Nitric acid plant	All	No visible emission			
Reg. II Section III	Incineration	All	< 20% opacity except for 3 min/day where can be up to 60% opacity			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY PUGET SOUND AIR POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 9.03 b	All	All	< #1 on Ringelmann Chart except for 3 min/hr.			

OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY ST. LOUIS

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 16	Incinerators (old)	All	< #2 on Ringelmann Chart			
Section 16	Incinerators (new)	All	< #1 on Ringelmann Chart			
Section 16	Existing Installations	All	< #2 on Ringelmann Chart			

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY SOUTH COAST AQMD
(LOS ANGELES)

DOCUMENTATION:
1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 401	Single Source of Emission[1]		#1 or equiv. opacity (Exceed #1 3 min/hr)		Ringelmann Chart	[1]Except Coke Ovens
Rule 477 b)	Coke Oven - Coal Charging		No V.E. except 60 sec/4 charging operations		Ringelmann Chart	
Rule 477 c)	Coke Oven - Charge Ports		No V.E. except 3% of charge ports during coking cycle		Ringelmann Chart	
Rule 477 d)	Coke Oven - Gas Offtake System		No V.E. except 10% of gas off-take systems during coking cycle		Ringelmann Chart	
Rule 477 e)	Coke Oven - Collecting Main		No V.E. except 3 points on the collecting mains		Ringelmann Chart	
Rule 477 f)	Coke Oven - Oven Doors		No V.E. except 10% of oven doors per battery		Ringelmann Chart	
Rule 477 g2)	Coke Oven - Hot Car		# 1 or equiv. opacity		Ringelmann Chart	

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OPACITY EMISSION STANDARD / CM REQUIREMENTS

AGENCY WAYNE COUNTY

DOCUMENTATION:

1. RHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 6.1	All Sources	All	< 1.5 on Ringelmann Chart or < 30%	At request of director.		> 30%, 3 min/30 min

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APPENDIX B

STATE-ADOPTED SO_2 REGULATIONS FOR EXISTING SOURCES

Of the agency regulations reviewed, only two states, Arkansas and Rhode Island, were found not to have some form of SO_2 emission limitation for existing sources. For specific details of a particular regulation within a given state, the reader is referred to Volume III of this report which contains the complete text of the regulations cited.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALABAMA AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
5.1.1	Fuel Burning Equip. Category I Counties		1.8 lb/MMBtu			Method 6	
	Category II Counties		4.0 lb/MMBtu			Method 6	
5.2.1	Sulfuric Acid Plants (Existing - 1/18/72)		27 lb/ton 100% acid	X		Method 6	
5.2.2	Sulfuric Acid Plants (New - 1/18/72)		4 lbs/ton acid (max 2 hr ave)	X		Method 6	
5.3	Petroleum Refineries handling gas containing >0.1 gr H_2S/SCF		Reg. 5.3.3 (See Regs)			Method 6	
14.2.3	FFFSG (Existing - 8/17/71 and has installed FGD)	>250 MMBtu		X(1)		Method 6	(1) CO_2 or O_2 monitors also required
14.2.4	Sulfuric Acid Plants (Existing - 8/17/71)	>300 ton 100% acid / day		X		Method 6	

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALASKA DEPT. OF ENVIRONMENTAL CONSERVATION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
18 ACC 50.050	Industrial processes, fuel burning equipment		500 ppm SO_2				
18 ACC 50.060	Sulfite pulp mills		20 lbs SO_2/ton pulp (24 hr. ave.)	5/26/72			(1) Blow pits, washer vents, storage tanks, digester relief, and recovery systems.

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ARIZONA STATE DEPT. OF HEALTH

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
R9-3-402	"New" fuel burning installations (Oil)		0.8 lb/MMBtu (Max. 2 hr. ave)			EPA Ref.	
	"Existing" fuel burning installations (Low - <.9% Sulfur Oil Fired)		1 lb/MMBtu				
	"Existing" fuel burning installations (High - >.9% Sulfur Oil Fired)		2.2 lb/MMBtu				
	Steam Power Generators Coal Fired New		0.8 lb/MMBtu			EPA Ref.	
	Coal Fired Existing		1.0 lb/MMBtu				
R9-3-403	Sulfite Pulp Mills		9 lb/ton pulp			EPA Ref.	
R-9-3-404	Sulfuric Acid Plant ("New Plants")		4 lb/ton 100% acid produced			EPA Ref.	
R9-3-405	Cement Plants (Existing as of 8/1/75		6 lb/ton kiln feed			EPA Ref.	
R9-3-406	All other industries		10% of process feed sulfur			EPA Ref.	
R9-3-401	Existing Cu Smelters		32-561 ton/day[1] as tons of sulfur	X[2]		EPA Ref.	[1] Emission limits for individual plants [2] CM for all sulfur removal equipment

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY CALIFORNIA

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
E,4,a	Industrial Process		<2000 ppm				
E,4,b	Fuel Burn Equip.		<200 lb/hr		<.5%		
E,5,d	Sulfuric Acid Plants	All		Yes			
E,5,d	Sulfur Recovery Plants	All		Yes			

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SO_2 EMISSION STANDARD / CH REQUIREMENTS

AGENCY COLORADO AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg 1 III.B.1	Process Unit		500 ppm(1)(2)			EPA Ref. Methods	(1) Until 1/1/85 (2) For sources of >5 tons SO_2/day
New Sources	NEW SOURCES (10/27/77)						
Reg 1 III.B.6	Coal Fired Operations						
	Conversions to Coal		1.2 lb/MMBtu			" "	
		<250 MMBtu/hr	1.2 lb/MMBtu			" "	
		>250 MMBtu/hr	0.4 lb/MMBtu			" "	
	Oil Fired Operations	<250 MMBtu/hr	0.8 lb/MMBtu			" "	
		>250 MMBtu/hr	0.3 lb/MMBtu			" "	
	Combustion Turbines	<250 MMBtu/hr	0.8 lb/MMBtu			" "	
		>250 MMBtu/hr	0.35 lb/MMBtu			" "	
	Natural Gas Desulfurization	Emitting <3 ton SO_2/day	2 lb/1000 ft^3 gas			" "	
		Emitting >3 ton SO_2/day	0.8 lb/1000 ft^3 gas			" "	
	Petroleum Refineries		0.3 lb/bbl(3) processed			" "	(3) Combination of all sources in facility
	Shale Oil Production	>1000 bbls/day	0.3 lb/bbl(3) processed			" "	
	Shale Oil Refining	>1000 bbls/day	0.3 lb/bbl(3) processed				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY COLORADO AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg 1 III.B.6	Sulfuric Acid Production		4 lb/ton Acid			EPA Ref. Method	
	All Other Sources		2 ton SO_2/day or BACT			EPA Ref. Method	

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY CONNECTICUT

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
19508-5	Stationary Source		<100 tons/yr*		ASTM	Method 6 Fed. Reg.	* If this limit exceeded then source test required.
19508-5	Sulfuric Acid Plant		<100 tons/yr*			Method 8 Fed. Reg.	
19508-19d	Nonferrous Smelters (Copper)		$Y = .2X$				X = Sulfur in lb/hr
19508-19d	Nonferrous Smelters (Zinc)		$Y = .564X^{.85}$				Y = SO_2 emissions lb/hr
19508-19d	Nonferrous Smelters (Lead)		$Y = .98X^{.77}$				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY DELAWARE (1977)

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. IX Section 2	Sulfuric acid manufacturing (old)	100 tons/day	< 1,000 ppm	Yes		Method #6 (Method #3 for CO, CO_2, and O_2)	Extensive CM program following Federal procedures.
Reg. IX Section 2	Sulfuric acid manufacturing (new)	100 tons/day	< 500 ppm	Yes			
Reg. IX Section 3	Sulfur recovery	50 tons/day	< 2,000 ppm	Yes			
Reg. XX Section 2.3	Fuel furning equipment (new)	> 250 x 10^6 Btu/hr	< 1.2 lb/10^6 Btu[a]	Yes			[a] Standard varies by county.

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY DEPT. OF ENVIRONMENTAL SERVICES
GOVERNMENT OF THE DISTRICT OF COLUMBIA

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
8-2:710 (b)	Process facilities		0.05% by vol.		Yes*		* If source > 100 tons/yr.

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY FLORIDA DEPT. OF POLLUTION CONTROL

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
17-2.04(6b)	Sulfuric Acid Plants	Existing Plants after 7/1/75	10 lbs SO_2/ton 100% H_2SO_4 produced				More stringent local regional standards
		New Plants	4 lbs SO_2/ton 100% H_2SO_4 produced				
17-2.04(6e)	FFSG Liquid Fuel	New Sources >250 MMBtu	0.8 lbs/MMBtu Max. 2 hr Ave	X 7/1/75			
	FFSG Solid Fuel	New Sources >250 MMBtu	1.2 lbs/MMBtu Max. 2 hr Ave	X 7/1/75			
	FFSG Liquid Fuel	Existing Sources >250 MMBtu	2.75 lbs/MMBtu	X 7/1/75			1) Existing sources SO_2 standards were to have been re-evaluated 7/1/77, with a possible lowering of the standards
	FFSG Solid Fuel	Existing Sources >250 MMBtu	6.17 lbs/MMBtu	X 7/1/75			2) Existing sources SO_2 standards for specific plants in state.
17-2.04(6h)	Sulfur Recovery Plants	New Plants	0.004 lbs/lb of sulfur input				
		Existing Plants (All plants with construction permit issued prior to 7/1/73)	0.08 lbs/lb of sulfur input				
				*7/1/75 is date which written proposals for monitoring systems must be submitted			

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY GEORGIA DEPT. OF NATURAL RESOURCES

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
391-3-1-.02 2g1)	All Sources with stack height less than 90 ft.	Stack height <90 ft	S = 1.2 F hs			State Approved Methods	
	All Sources - stack height between 90 - 300 ft.	Stack height 90 - 300 ft.	$S = 4000\ F\ (\frac{hs}{300})^3$			State Approved Methods	
	All Sources - stack height greater than 300 ft	Stack height >300 ft	$S = 4000F\ (\frac{hs}{300})^2$			State Approved Methods	
			Note: hs = Stack Height S = lbs SO_2/hr F = 1 for non-combustion SO_2 sources F = 2 for combustion sources <10,000 MMBtu/hr F = 3 for combustion sources >10,000 MMBtu/hr.				

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

GA 8

AGENCY GEORGIA DEPT. OF NATURAL RESOURCES

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
391-3-1-.02 2g2)	Fuel Burning Sources Constructed after 1/1/72	Oil Fired >250 MMBtu	0.8 lbs/MMBtu			State Approved Methods	
		Coal Fired >250 MMBtu	1.2 lbs/MMBtu			State Approved Methods	
2g3)	Fuel Burning Sources	<100 MMBtu			2.5% Sulfur by weight		
		>100 MMBtu			3% Sulfur by weight		
2j1)	H_2SO_4 Plants Constructed before 1/1/72		27 lbs SO_2/ ton 100% acid produced	X		State Approved Methods	
	H_2SO_4 Plants Constructed after 1/1/72		4 lbs SO_2/ ton 100% acid produced	X			

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY HAWAII DEPT. OF HEALTH

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Sec. 14	Fuels for fuel burning equip. FFFSG	 >250 MMBtu/hr			2% sulfur max. 0.5% sulfur		

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY IDAHO DEPT. OF HEALTH & WELFARE

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
t. Sec. 3	Residual fuel oil furning				1.75% S		
Sec. 4	Grade #1				0.3% S		
	Grade #2				0.4% S		
Sec. 5	Coal				1.0% S		
R. Sec. 2	Sulfuric acid plants burning elemental sulfur		28 lb/ton 100% acid				
S. Sec. 3	Zinc/lead smelters total premises		1900 lb/hr. (max. 1 hr. ave.) 1200 ton/consecutive 7-day period (or (2))	(1) 10/27/75			(1) Any stack capable of emitting > 50 ton/yr. SO_2
S. Sec. 4	Lead plant acid plant		4000 ppm (max. 8 hr. ave.)				(2) If approved by dept.
	Zinc plant stack		4000 ppm (max. 8 hr. ave.)	(1) (7/31/75)			
	Lead plant main stack		100 tons/day				
	Total premises		1200 tons/consecutive 7-day period				

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ILLINOIS EPA

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 204	Solid Fuel Combustion (New- April 1972)	>250 MMBtu	1.2 lb/MMBtu (1 hr. max.)			Method 6	
	Liquid Fuel Combustion (New - April 1972)					Method 6	
	(1) Residual	>250 MMBtu	0.8 lb/MMBtu (1 hr. max.)				
	(2) Distillate	>250 MMBtu	0.3 lb/MMBtu (1 hr. max.)				
	Solid Fuel Combustion (New - April 1972)	<250 MMBtu	1.8 lb/MMBtu (1 hr. max.)			Method 6	
	Liquid Fuel Combustion (New - April 1972)					Method 6	
	(1) Residual	<250 MMBtu	1.0 lb/MMBtu (1 hr. max.)				
	(2) Distillate	<250 MMBtu	0.3 lb/MMBtu (1 hr. max.)				
	Solid Fuel Combustion (Existing-Apr. 1972)		1.8 lb/MMBtu[1] (1 hr. max.)			Method 6	[1]Any major metro. area where the avg. annual measured ambient SO_2 concentration exceeds 45 $\mu g/m^3$
	Solid Fuel Combustion (Existing-Apr. 1972)		6.0 lb/MMBtu[2]			Method 6	[2]Any other part of state
	Liquid Fuel Combustion (Existing-Apr. 1972)					Method 6 and/or Method 8	
	(1) Residual		1.0 lb/MMBtu (1 hr. max.)				
	(2) Distillate		0.3 lb/MMBtu (1 hr. max.)			Method 6 and/or Method 8	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ILLINOIS EPA

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL & MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 204	Process Emission Source Sulfuric Acid Plant (New - Apr. 1972) H_2S Flare (Existing batch type processes) Petroleum and petrochemical processes with FGD		2,000 ppm 4 lb/ton acid produced 500 lb/hr (3500 lb/8 hr) *See equations in "Comments"			Method 6 and/or Method 8 Method 6 and/or Method 8 Method 6 and/or Method 8	*Combination Sources - under one ownership $E = 20{,}000\ (\frac{H_s}{300})^2$ $H_s = \frac{P_1H_1 + P_2H_2 + \ldots P_nH_n}{100}$ E = lb SO_2/hr, 1 hr. max. P_i = % of total emissions emitted from source "i" H_i = physical height of stack (ft) for stack "i"

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY INDIANA AIR POLLUTION CONTROL BOARD

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X(Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC-13	New Large Sources	>250 MMBtu/hr	NSPS			Method 6	
	Fuel Combustion Operations	<250 MMBtu/hr. (New Sources Only)	$E_m = 17\ Q_m^{-0.33}$			Method 6	(1) Formula for calculating ground concentration should also be used. Whichever procedure gives lowest emission rate shall be used
	Existing Sulfur Recovery Plants and Others Not Covered by the Above		$E_p = 19.5P^{0.67}$			Method 6	(2) Stack height on all new sources shall be 50 ft.
			Note: $E_m = \frac{\text{lbs } SO_2}{\text{MMBtu}}$ Q_m = fuel input MMBtu/hr E_p = lb SO_2/hr P = Process capacity tons/hr				(3) These formulae apply to sources found in areas where the secondary ambient air quality standard is being exceeded.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY IOWA

DOCUMENTATION:
1. BHA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.3(3) a(1)	Fuel Burning unit (old - coal)	>500 x 10^6 Btu/hr	<8 lb/10^6 Btu (2 hr avg.)			State Method	
4.3(3) a(3)	Fuel burning unit (new - coal)	<250 x 10^6 Btu/hr	<6 lb/10^6 Btu (2 hr avg.)			State Method	
4.3(3) b	Fuel burning unit (liquid)	All	<2.5 lb/10^6 Btu			State Method	
4.3(3) c	Sulfuric Acid Plant	All	30 lb/ton of 100% acid (max 2 hr. avg.)			State Method	
4.3(3) e	All	All	<500 ppm				
7.1(4)	Sulfuric Acid	>300 ton/day production		Yes		State Method	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY KANSAS STATE DEPT. OF HEALTH

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
28-19-22 A) (New - 1/1/72)	Non Ferrous Smelter						(1) X = sulfur feed to smelter Y = lb/hr SO_2
	(1) Zinc		$0.564X^{0.85(1)} = Y$				
	(2) Lead		$0.98X^{0.77(1)} = Y$				
28-19-31 C)	Indirect Heating Equip.	>250 MMBtu/hr	1.5 lb/MMBtu				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY KENTUCKY DIV. OF AIR POLLUTION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
401-KAR-. 3:060 Sec. 3	EXISTING SOURCES Indirect Heat Ex(2) (1) Liquid Fuel	>50 MMBtu/hr(1)	$Y = 7.7223X^{-0.4106}$ to $Y = 8.0189X^{-0.1260}$ (3)	X (>250 MMBtu)	X	Method 6	(1) For gas, LPG, & distillate >1 MMBtu for all other fuels (2) Five different equations for five regional classifications (3) Y = lbs SO_2/MMBtu X = MMBtu/hr heat input
	(2) Solid Fuel(2)		$Y = 13.8781X^{-0.4434}$ to $Y = 12.0284X^{-0.126}$ (3)	X (>250 MMBtu)	X		
Sec. 6	Sulfite Pulp Mills (Apr. 1972)		9 lb/ton pulp			Method 6	
Sec. 7	Sulfuric Acid Plants (Apr. 9, 1972)		27.6 lb/ton 100% acid	X		Method 8	
Sec. 8	Process Gas Streams		2000 ppm			Method 6	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY LOUISIANA AIR CONTROL COMMISSION

DOCUMENTATION:
1. BNA
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Sec. 23.4.2	Chemical Woodpulping		2,000 ppmv			Method 6	
Sec. 24.7.2	Sulfuric Acid Plants		2,000 ppmv [1] [2] 3 hr. avg.			Method 6	[1]Four hour exemption allowed for plant start-up.
Sec. 24.7.4	All Sources		2,000 ppmv			Method 6	[2]Four hour exemption allowed for upset conditions. Report to follow within 7 days of upset.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MAINE (1977)

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
604	Sulfite Pulping (all constructed after 31 Jan. 1972)		40 lb/ton Dry Sulfite			1, 6 Fed. Ref.	Applies only to SO_2 produced from process and not from coal burned.
604	Sulfite Pulping (all existing sources by 1 June 1975)		40 lb/ton Dry Sulfite			1, 6 Fed. Ref.	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MARYLAND

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
10.0338.04 B 1	All	All			Solid fuel < 1%	State of Maryland Rules	
10.0338.04 B 2	All	All			Distillate fuel oils < .3%		
10.0338.04 B 3	All	All			Residual fuel oils < 1%		
10.0338.04 B 5	Coke ovens (existing)				Residual fuel oils after 1 July 1980 < .5%		
10.0338.04 B 5C	Coke ovens (after 30 June 1983)				Process gas <1%/2 hr. < .5%		
10.0338.04 C 1	Nonfuel burning plants (after 21 Feb. 71)		< 500 ppm				
10.0338.04 C 1	Nonfuel burning plants (prior to 21 Feb 71)		< 2,000 ppm				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MASSACHUSETTS

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
2.5.2	Sulfuric Acid Plant (New)	All	4 lb/ton acid prod.			Method approved by Director	
2.5.2	Sulfuric Acid Plant (Existing)	All	27 lb/ton acid prod.			"	
2.5.2	Industrial Facility	All	250 ppm			"	
5.1.1	Fossil Fuel Burning Facilities	All			.28 lb/Btu heat release potential	"	Numerous exceptions listed in attached regulations.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MICHIGAN DEPT. OF NATURAL RESOURCES

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
R336.49	Power Plants (Permit before 8/17/71) Solid Fuel	0-500 lb steam/hr	2.4 lb/MMBtu[1] 890 ppm 50% excess		1.5%[1]	State Approved Methods	[1]After 7/1/78
	Liquid Fuel	0-500 lb steam/hr	1.7 lb/MMBtu[1] 630 ppm 50% excess		1.5%[1]	State Approved Methods	
	Solid Fuel	>500 lb steam/hr	1.6 lb/MMBtu[1] 590 ppm 50% excess		1.0%[1]	State Approved Methods	
	Liquid Fuel	>500 lb steam/hr	1.1 lb/MMBtu[1] 420 ppm 50% excess		1.0%[1]	State Approved Methods	
	Power Plants (Permit after 8/17/71)		NSPS			State Approved Methods	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X(Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL & MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC4-C	Indirect Heating Equip. (Existing - 1/24/77)					Method 6	
	Solid Fuels		3-4 lb/MMBtu[1]				[1]Different regional standards and source capacities.
	Liquid Fuels		1.6-2 lb/MMBtu[1]				
APC4-D	Indirect Heating Equip (New - 1/24/77)					Method 6	
	Solid Fuels		1.2-4 lb/MMBtu				
	Liquid Fuels		0.8-2 lb/MMBtu				
APC15-B	Sulfuric Acid Plants (Existing - 8/17/71)		30 lb/ton 100% acid			Method 8	
APC15-C	Sulfuric Acid Plants (New - 8/17/71)		4 lb/ton 100% acid			Method 8	
APC24-B	Petroleum Refineries (Existing - 6/11/73) Fuel Gas Combustion and Indirect Heating Equip.		1.75 lb/MMBtu[2] 3.0 lb/MMBtu[3]			Method 6	[2]Standard for entire refinery [3]Standard for any single source in refinery.
APC-24-C	Petroleum Refineries (New - 6/11/73) Fuel Gas Combustion Device		0.1 gr H_2S/dscf[4]	See Comment[5]		Method 6 or Method 11	[4]Burning of higher H_2S content fuel gas prohibited unless combustion gases are treated for SO_2 removal [5]C/M for H_2S of fuel gas or SO_2 of combustion gas

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Same Date
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC24-C	Petroleum Refineries (New - 6/11/73)(Cont'd)						
	Indirect Heating Equip		1.75 lb/MMBtu[1] 3.0 lb/MMBtu[2]			Method 6	[1]Standard for entire refinery [2]Standard for any single source in refinery.
	Steam Generating Unit						
	Liquid Fuel	>250 MMBtu/hr	0.8 lb/MMBtu			Method 6	
	Solid Fuel	>250 MMBtu/hr	1.2 lb/MMBtu				
APC32-C	Direct Heating Equip.[3]						[3]Any direct heating equipment not otherwise regulated.
	Solid Fuel		3-4 lb/MMBtu[4]			Method 6	
	Liquid Fuel		1.6-2 lb/MMBtu[4]				[4]Different regional standards and source capacities

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MISS. AIR & WATER POLLUTION CONTROL COMMISSION

DOCUMENTATION:
1. BNA X (Most Recent)
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Sec. 4 1)	Fuel Burning Equip.		4.8 lb/MMBtu				
	Modified(1) Fuel Burning Equip		2.4 lb/MMBtu				(1) Modified - change in source which increases or causes to be emitted SO_2.
2)	All sources Existing - 5/11/72		2000 ppm SO_2				
	New - 5/11/72		500 ppm SO_2				
	Sulfur Recovery Plant		0.12 lb/lb. sulfur processed				
	Copper Smelters		$Y = 0.2X$(2)				(2) Y = lb SO_2/hr
	Zinc Smelters		$Y = 0.564X^{0.85}$(2)				X = Sulfur Feed lb/hr
	Lead Smelters		$Y = 0.98X^{0.77}$(2)				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MISSOURI DEPT. OF NATURAL RESOURCES

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
10 CSR 10-3.100 (3) and 10 CSR 10-4.150 (3) and 10 CSR 10-5.150 (3)	Processes - Existing 2/24/71		2000 ppm			SO_2 - Modified Monsanto Co. Method	(1) Only if ambient air stand. are exceeded
	Processes - New 2/24/71		500 ppm				(2) For 10 CSR 10-5.150 - for any size emission source if ambient standards are exceeded
	All Sources		1,000 lb/hr (1)(2)				(3) All three sets of regulations set same limits for these categories except (2) above.
10 CSR 10-5.110	Fuel Burning Equip.	>2000 MMBtu/hr	2.3 lb/MMBtu				
		<2000 MMBtu/hr			2% sulfur coal or oil oil (4)	ASTM	(4) Not necessary if emissions do not exceed 2.3/MMBtu

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MONTANA DEPT. OF HEALTH AND ENVIRONMENTAL SCIENCES

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16-2.14 (1) S 1470 1c)	All fuel burning equipment		1 lb S/MMBtu			State Approved Method	As of 7/1/72
1d)	All gaseous fuel burning equipment		50 gr H_2S/100 ft^3			State Approved Method	As of 7/1/71 Exceptions 1) Sulfur production facilities 2) Process where exhaust gases are used as raw material 3) Waste gases of less than 300 Btu/ft^3 and sulfur content less than required by this standard 4) Refineries <10,000 barrels/day crude

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY MONTANA DEPT. OF HEALTH AND ENVIRONMENTAL SCIENCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
16.2.14 (1) S 1470 2a)	Primary Non ferrous Smelters		For Cu - $Y = 0.1X$ For Zn - $Y = 0.282X^{0.85}$ For Pb - $Y = 0.49X^{0.77}$ Y = Allowable Sulfur Emission (lb/hr) X = Sulfur in feed (lb/hr)		State Approved Method	Sulfur in feed over 10^5 lbs/hr allows 10^4 lb/hr for Cu, 5000 lb/hr for Zn, and 10^3 lb/hr for Pb.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEBRASKA

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 9	Fossil Fuel Burning Equip. (existing)		<2.5 lb/10^6 Btu (2 hr ave.)			Fed. Method or those specified by Director	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Art 14 4	Copper Smelter	All	<65000 lb/hr (6 hr. avg)	Yes, if unit exceeds 5% o standard (Jan. 78)		Method 8 Part 60, CFR	1. More details of CM procedures in attached rules.
16.7.4	Petroleum Refineries (New)	All		Yes, if unit exceeds 5% of standard (Jan. 78)	<.1 gr/dscf H_2S in fuel gas		
16.13.3	Primary Copper Smelters (New)	All except reverberatory smelting furnaces	<.845 gm/m^3	Yes, if unit exceeds 5% of standard (Jan. 78)		According to NSPS	
16.14.3	Primary Zinc Smelters (New)	All	<.845 gm/m^3	Yes, if unit exceeds 5% of standard (Jan. 78)		According to NSPS	
16.15.3	Primary Lead Smelters (New)	All	<.845 gm/m^3	Yes, if unit exceeds 5% of standard (Jan. 78)		According to NSPS	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW HAMPSHIRE

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 5 III.	Fuel Burning Facilities	All			Yes (ASTM) < 2.8 lb/ Btu, heat cont.	EPA approved	* Depend on fuel sulfur content will vary as shown in attached regulation.
Reg. 14 III.B	Nonferrous smelters (copper)	All	$Y = .2\ X^{**}$				** X = Sulfur input (lb/hr.) Y = SO_2 output (lb/hr.)
Reg. 14 III.B.	Nonferrous smelters (zinc)	All	$Y = .564X^{.85**}$				
Reg. 14 III.B.	Nonferrous smelters (lead)	All	$Y = .98X^{.77**}$				
Reg. 15 III.F.	Kraft pulp mill	All	20 lb/ton pulp				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW JERSEY

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
7:27-10.2a	Fuel Burning Units (coal)	All	<2000 ppm		<.2%	By Methods approved by Dept.	
7:27-7.2c	Sulfur recovery	All	<15000 ppm			By Methods approved by Dept.	
7:27-9.2a	Fuel Burning Units (oil)	All			<.3% Sulfur	By Metho approved by Dept.	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:
1. RNA X
2. RULES & REGS. X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
602	Coal Fired Burners (New - 9/1/71)	>250 MMBtu/hr	0.34 lbs/MMBtu	X 7/1/77 (O_2 CM)		Fed. Methods	(1) Pretreatment must reduce potential SO_2 emission to 35%
	(Existing - 9/1/71)	>250 MMBtu but <300 MMBtu/hr	Pretreatment of coal (1)	X 7/1/77 (O_2 CM)		Fed. Methods	
	(Existing - 9/1/71)	>250 MMBtu/hr	1 lb/MMBtu	X 7/1/77 (O_2 CM)		Fed. Methods	
605	Oil Burning Equip.	10^6 MMBtu/yr	0.34 lb/MMBtu				
622	Petroleum Refinery (New 7/1/74) Off gas from fuel burning equip.		10 gr. S/100ft^3				
679	Gasification Plants Gas Burning Boilers		0.16 lb/MMBtu				

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW YORK

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 214.4	By Product Coke Oven Batteries	All			50 grain/ 100 scf	State of New York	
Section 224.2	Sulfuric Acid Plant	All	4 lb/ton acid	Yes			Details given in Rule for CM

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY N. CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
0511	Kilns or Dryers - Liteweight Aggregate Processes		2.3 lb/MMBtu			EPA Method 6	
0516	Fuel Burning Installation		2.3 lb/MMBtu			EPA Method 6	
0517	Sulfuric Acid Plants		27 lb/ton acid produced			EPA Method 6	

SO_2 EMISSION STANDARD / CH REQUIREMENTS

AGENCY N. DAKOTA STATE DEPT. OF HEALTH

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
6.120	Fuel Burning Installations		3 lb/MMBtu			SO_2 - Shell Development Co. Method	
6.220	Industrial Processes		None(1)				(1) Cannot cause ambient standards to be exceeded

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY OHIO EPA

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP ____
4. AGENCY PERSONNEL ____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
3745-17-12	Process Equipment (New - 1/1/74)		500 ppm			Comments (1) and/or (2) apply to all sources listed on this sheet	
	Process Equipment (Existing - 1/1/74)		2,000 ppm				(1) SO_2 measured by Shell Development Company Method
	Sulfuric Acid Plants		6.5 lb/ton acid produced				(2) SO_3 and acid mist measured by Monsanto Company method
	Process Gas Stream		100 gr H_2S/100scf (No combustion)				
	Sulfur Recovery Plant		0.01 lb/lb sulfur processed				
	Copper Smelters		$Y = 0.2X$				
	Zinc Smelters		$Y = 0.564X^{0.85}$				
	Lead Smelters		$Y = 0.98X^{0.77}$ (Y = emissions lb/hr X = sulfur feed lb/hr)				
	Sulfite Pulp Mill		9.0 lb/ton pulp produced				
3745-17-13	Fuel Burning Installation		1 lb/MMBtu				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY OKLAHOMA AIR QUALITY SERVICE

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16.2	Existing equip. (Before 12/1/74)		No violation of ambient standards				
16.31	New Sulfuric Acid Plants (After 12/1/74)		4 lb SO_2 ton 100% acid produced	X		CFR 466.65	Max 2 hr. ave.
16.32	New Fuel Burning Equip (After 12/1/74)						
	Gas		0.2 lb/MMBtu	X(If S >0.1%)		CFR 466.26	
	Liquid		0.8 lb/MMBtu	X	Yes*	CFR 466.26	Max. 2 hr ave. Monitoring required >250MMBtu O_2 or CO_2 monitoring
	Solid		1.2 lb/MMBtu	X	Yes*	CFR 466.26	
16.33	New Sulfur Recovery Plants (After 12/1/74)		20 lbs/ton of sulfur processed	X			Max. 2 hr. ave.
					*Required Analyzed by ASTH		

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY OKLAHOMA AIR QUALITY SERVICE

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16.34	Non ferrous smelters (New - After 12/1/74)						
	Copper		$Y = 0.2X$	X			Max 2 hr. ave. where: Y = lb/hr SO_2 X = lb/hr sulfur feed
	Zinc		$Y = 0.546X^{0.85}$	X			
	Lead		$Y = 0.98X^{0.77}$	X			
16.35	New Paper Pulp Mill (After 12/1/74)		18 lbs/ton pulp produced	X			
16.51	New petroleum and Nat. Gas Processes (After - 12/1/74)						
	Oxidation of H_2S		100 lb/hr SO_2				Max 2 hr. ave. Stack height must be >50 ft.

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY OREGON DEPT OF ENVIRONMENTAL QUALITY

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
340-22-010	Residual Fuel Oil				1.75%		
340-22-015	# 1 Distillate				0.3%		
	# 2 Distillate				0.5%		
340-22-020	Coal				1.0%		
340-22-055	Fuel Burning Equipment (New - 1/1/72)						
	(1) Liquid Fuel	150-250 MMBtu/hr	1.4 lb/MMBtu				
	(2) Solid Fuel	150-250 MMBtu/hr	1.6 lb/MMBtu (Max. 2 hr avg)				
	(3) Liquid Fuel	>250 MMBtu/hr	0.8 lb/MMBtu				
	(4) Solid Fuel	>250 MMBtu/hr	1.2 lb/MMBtu (Max. 2 hr avg)				
25-165	Kraft Mills Recovery Furnace		300 ppm				
340-25-360	(1) Sulfite Pulp Mill		20 lb/ton pulp	X			All plants larger than 110 tons per day. Smaller plants must meet other requirements - See regulations
	(2) Blow System		0.2 lb/min/ton pulp (15 min avg)	X			
	(3) Recovery System, Acid Plant, Other Sources		800 ppm (hr avg)	X			

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY PENNSYLVANIA

DOCUMENTATION:
1. BNA
2. RULES & REGS.
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
123.21	All	All	< 500 ppm			Methods approved by department	
123.22	Combustion units	> 2.5×10^6 but < 50×10^6 Btu/hr.	< 3 lb/10^6 Btu				
123.22	Combustion units	> 50×10^6 but < $2{,}000 \times 10^6$ Btu/hr.	Must be < A where $A = 5.1E^{-.14}$ where A = SO_2 emission in lb/10^6 Btu E = heat input in 10^6 Btu/hr.			Methods approved by department	
123.24	Primary zinc smelters		< 500 ppm 2 hr. running average				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY PUERTO RICO ENVIRONMENTAL QUALITY BOARD

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
6.1.1	Fuel Burning Equipment				1% Sulfur[2]	Method Approved by Board	[1]For San Juan, Cataño, Guayabo, and Bayamón.
6.1.2	Fuel Burning Equipment[1]				0.5% Sulfur[2]	Method Approved by Board	[2]Higher sulfur fuel may be used if control equipment is installed for controlling SO_x emissions.
6.1.7	Process Gas Stream[3]		10 gr H_2S/100 scf			Method Approved by Board	[3]No combustion if H_2S limit is exceeded.
6.2	Sulfuric Acid Plant		6.5 lb/ton 100% acid produced				
6.3	Sulfur Recovery Plant		0.1 lb SO_2/lb sulfur processed			Method Approved by Board	
6.4	Primary Nonferrous Smelters						Y = SO_2 lb/hr
	Copper		Y = 0.1x				x = Sulfur feed to smelter lb/hr
	Zinc		Y = $0.564x^{0.85}$				
	Lead		Y = $0.98x^{0.77}$				
6.5	Sulfite Pulp Mills		9 lb/ton pulp produced			Method Approved by Board	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY S. CAROLINA DEPT. OF HEALTH & ENVIRONMENTAL CONTROL

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Std. No. 2 Sec. II	Fuel Burning Sources		2.3 - 3.5 lb/ MMBtu (1)				(1) Range of values based on various source sizes and classified areas of state
Std. No. 5 Sec. I	Sulfuric Acid Plants		4 lb/ton 100% acid produced				

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY S. DAKOTA DEPT. OF ENVIRONMENTAL PROTECTION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
34:10:07:03	Fuel Burning Equip.		3 lb SO_2/MMBtu				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

DOCUMENTATION:
1. BNA _____
2. RULES & REGS. X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

AGENCY TENNESSEE DIVISION OF AIR POLLUTION CONTROL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
1200-3-14-.02 1 a)	Fuel Burning Installation[1] (Existing - 4/3/72)					Method 6	[1] Class I, II, III, V, and VI Counties
		>1000 MMBtu/hr	1.2 - 5 lb/MMBtu 1 hr avg.				
		<1000 MMBtu/hr	1.6 - 5 lb/MMBtu 1 hr avg.				
1200-3-14-.02 1 b)	Fuel Burning Installation[2] (Existing - 4/3/72)					Method 6	[2] Class IV County
	Coal		4 lb/MMBtu 1 hr avg.				
	#5 & #6 Fuel Oil and other Solid Fuel		2.7 lb/MMBtu 1 hr avg.				
	All Other Fuels		0.5 lb/MMBtu 1 hr avg.				
1200-3-14-.02 2 a)	Fuel Burning Installation[3] (New 4/3/72)	<250 MMBtu/hr	1.6 - 5 lb/MMBtu 1 hr avg.			Method 6	[3] All Counties
1200-3-14-.02 2 b)	Fuel Burning Installation[4] (New 4/3/72)	>250 MMBtu/hr				Method 6	[4] All Counties
	Liquid Fossil Fuel		0.8 lb/MMBtu 1 hr avg.				
	Solid Fossil Fuel		1.2 lb/MMBtu 1 hr avg.				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY TENNESSEE DIVISION OF AIR POLLUTION CONTROL

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
1200-3-14-.03	Air Contaminant Source		500-2000 ppm 1 hour avg.			Class I, II, III, IV, V, VI Counties

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY TEXAS AIR CONTROL BOARD

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
131.04.01.001	Sulfuric Acid Plants burning elemental sulfur		$E = 0.0198q$ (1)			State Method	(1) $E = SO_2$ lb/hr q = Stack effluent flow rate
131.04.01.002	All other Sulfuric Acid Plants		$E = 0.0347q$ (1)			State Method	Provisions for effective stack height are written in regs.
131.04.01.003	Sulfur Recovery Plant		$E = 123.4+0.091q$ (1)			State Method	
131.04.01.004	Non ferrous Smelters		0.8% by volume of total flue gas(2)			State Method	(2) Provision for effective stack height
131.04.01.005	FFFSG (Solid Fuel)		3 lb/MMBtu			State Method	
131.04.01.006	FFFSG, furnace, or heater (liquid fuel)		440 ppm (2)		X (3)	State Method	(3) Only if standards are being exceeded because of unavailability of low sulfur fuel
131.04.01.016 (2)	Primary Copper Smelter					State Method	
	Reverb. Furnace		650 ppm (6 hr avg)	X 5/31/75			
	All other Sources		6000 ppm (6 hr avg)	X 5/31/75			
	Primary Zinc Smelter		1000 ppm (2 hr avg)	X 5/31/75			
	Primary Lead Smelter Sinter Machine and Sinter Handling Equip Collection System		2500 ppm (2 hr avg)	X 5/31/75			
	All other sources		650 ppm (2 hr avg)	X 5/31/75			
	Other Primary Smelters		2500 ppm (2 hr avg)	X 5/31/75			

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY TEXAS AIR CONTROL BOARD

DOCUMENTATION:
1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
131.04.01.016 (Continued)	Secondary Metal Recovery Facility		3500 ppm (2hr avg			State Metho	
	Sulfuric Acid Plant(4)		650 ppm (6hr avg	X (5/31/75)			(4) Acid plants as SO_2 control equip. in nonferrous smelters
131.04.03.001	All Sources emitting H_2SO_4		None(5)			State Metho	(5) Limits based on ambient air standards for H_2SO_4

SO_2 EMISSION STANDARD / CH REQUIREMENTS

AGENCY UTAH STATE BOARD OF HEALTH

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
2.4.1	Fuel burning or process installation				1.0%S - Coal 1.5%S - Oil	ASTM	
2.5.1	New Installations (Constructed after 6/1/75)		NSPS for all oxides of sulfur				
2.5.6	Nonferrous Smelters		1) SO_2 greater than 3750 tons/month as sulfur 2) 14% of Input Sulfur to process				1) Whichever is less 2) Limit can be exceeded during any given month due to breakdowns, etc.; but the running annual average shall not exceed monthly standard. 3) These standards are an interim measure, applicable until 7/31/79

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY VERMONT

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
5-221, 1a	Stationary combustion installations	All			< 2% sulfur in fuel	Fed Methods	Exceptions follow in rules.
5-251, 2	Stationary combustion installations (liquid fuel)	> 250 x 10^6 Btu	.8 lb/10^6 Btu				
5-251, 2	Stationary combustion (solid fuel)	> 250 x 10^6 Btu	1.2 lb/10^6 Btu				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGINIA

DOCUMENTATION:
1. BNA X
2. RULES & REGS.
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.04	Sulfuric acid plant	> 300 tons/day of acid produced		Yes			
Rule EX-5 4.51	All	All	< 2,000 ppm				
Rule Ex-5	Combustion installations	All	S = 2.64K* AQCR 1-6 S = 1.06K AQCR 7				* S = SO_2 emissions in lb/hr. K = heat input in Btu x 10^6/hr Regional variation does exist in this case.
4.51	Sulfuric acid plants	All	< 2,000 ppm or < 27 lb/ton acid when elemental sulfur supplied, when other sources of sulfur then < 3,500 ppm or < 45 lb/ton acid				
4.51	Sulfur recovery plant	All	< 8,000 ppm				
4.51	Lightweight aggregate	All			< 3 lb S/ 10^6 Btu		
4.51	Nonferrous smelters (copper)	All	Y = .2x				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGINIA

DOCUMENTATION:
1. BNA X
2. RULES & REGS.
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.51	Nonferrous smelters (zinc)	All	$Y = .564X^{.85}$				Y = Sulfur emission in lb/hr as SO_x
4.51	Nonferrous smelters (lead)	All	$Y = .98X^{.77}$				X = Sulfur input
5.03	Fossil fuel fired steam generators (new)	> 250 x 10^6 Btu/hr.		Yes			
5.04	Sulfuric acid plant (new)	All		Yes			
5.04	Petroleum refineries (new fuel gas combustion devices)	All		Yes			

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGIN ISLANDS DEPARTMENT OF HEALTH

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
204-26 a) 2)	Fuel Oil Combustion		Not to exceed ambient air standards		0.5%		

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY WASHINGTON STATE DEPT. OF ECOLOGY

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
WAC-173-400-040	All sources		1,000 ppm				(1) Dry basis (2) 7% O_2 for combustion sources (3) 1,000 ppm - except when it can be proven ambient standards will not be exceeded.
WAC-173-410-031	"Existing" 12/28/76 sulfite pulping mill sulfite liquor incineration		20 lb/ton pulp produced				
	Non-incineration source		4 lb/ton pulp produced				Mills < 150 tons pulp/day need not comply if 80% collection of SO_2 will be maintained and ambient standards will not be exceeded.
	Blow system emission		0.2 lb/min.; 15 min. average/ ton pulp discharged from digester	12/28/76			
	Recovery system & acid plant		800 ppm SO_2 hourly ave.	12/28/76			
WAC-173-410-041	New "after 12/28/76" sulfite pulping mills recovery system		300 ppm SO_2 hourly ave.	12/28/76			
WAC-400-090	FFFSG	> 250 MM Btu/hr.		X (1) (2)			(1) W/FGD if less than 250 MM Btu/hr. (2) CO_2 or O_2 CM also.
	Sulfuric acid plant	> 300 ton/day acid produced		X			

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY WEST VIRGINIA

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Series X Section 3	Fuel burning unit	All	< 2.2 lbs/10^6 Btu		Yes 1% coal .5% oil	As specified by director	
Series X Section 3.08	Manufacturing process	All	< 2,000 ppm		"	"	
Series X Section 3.08	Sulfuric acid plant (elemental sulfur feed stock)	All	30 lb/ton acid		"	"	
Series X Section 3.08	Sulfuric acid plant (other feed stock)	All	40 lb/ton acid		"	"	
Series X Section 3.08	Sulfur recovery plant	All	< .06 lb/lb sulfur		"	"	
Series X Section 3.08	Nonferrous smelter (copper)	All	$Y = .2X$ *		Yes 1% coal .5% oil	As specified by director	* Y = SO_2 emissions X = total sulfur input
Series X Section 3.08	Nonferrous smelter (zinc)	All	$Y = .564X^{.85}$*		"	"	
Series X Section 3.08	Nonferrous smelter (lead)	All	$Y = .98X^{.77}$ *		"	"	
Series X Section 3.08	Sulfite pulp mill	All	9 lb/ton air dried pulp		"	"	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY WISCONSIN DIV. OF ENVIRONMENTAL PROTECTION

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
NR 154.12 (2)	New FFFSG						
	Liquid	>250 MMBtu	0.8 lb/MMBtu			Method 6	
	Solid	>250 MMBtu	1.2 lb/MMBtu				Additional AQCR coal limit (1.11 lb/MMBtu)
	New Sulfuric Acid Plants		4 lb/ton acid produced			Method 6	
NR 154.12 (3)	Petroleum Refineries		0.1 gr H_2S/dscf[1]			Method 6	[1]No combustion without equivalent SO_2 control.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY WYOMING DEPT. OF ENVIRONMENTAL QUALITY

DOCUMENTATION:
1. BNA X
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Chap. I Sec. 4	Sulfuric acid plant (existing)		2,000 ppm (max. 2 hr. ave.)				
	Sulfuric acid plant (new)		4 lbs. SO_2/ton acid produced (max. 2 hr. ave.)				
	Fuel burning equip. constructed after 1/1/74	> 250 MM Btu	Coal-0.2 lb/10^6 Btu Oil-0.8 lb/10^6 Btu				
	Fuel burning equip. constructed before 1/1/74	250-2,500 MM Btu	Coal-1.2 lb/10^6 Btu				
		2,500-5,000 MM Btu	Coal-0.5 lb/10^6 Btu				
		> 5,000 MM Btu	Coal-0.3 lb/10^6 Btu				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALLEGHENY COUNTY HEALTH DEPARTMENT

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
1809.3 B1)	Fuel-Burning or Combustion Equipment	< 50 MMBtu/hr	1.0 lb/MMBtu			Los Angeles Air Pollution Control District Method	
1809.3 B2)	Fuel Burning or Combustion Equipment	>50 but < 2000 MMBtu/hr	$A = 1.7E^{-0.14}$			L.A.Air Pollution Cont. Dist. Meth.	A = lb SO_2/MMBtu E = MMBtu/hr
1809.3 B3)	Fuel Burning or Combustion Equipment	>2000 MMBtu/hr	0.6 lb/MMBtu			L.A.Air Pollution Cont. Dist. Meth.	
1809.6 A)	All Sources		500 ppm			L.A.Air Pollution Cont. Dist. Meth.	
1810.2 A)	Sulfuric Acid Plant[1]		6.5 lb/ton acid produced			L.A. Air Pollution Cont. Dist. Meth.	[1]Except desulfurication of by-product coke oven gas
1810.3	Sulfur Recovery[1] Plant		$A = 0.32E^{-0.5}$			L.A. Air Pollution Cont. Dist. Meth.	A = lb SO_2/lb S in feed gas E = Recovery plant rating in long tons S/day.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:
1. BAP
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 2, Div. 3 Chap. 1 3122	All Sources		300 ppm			Reg. 2 Div.9 Chap. 1	
3123	All Sources		None[1]			Reg. 2 Div.9 Chap. 1	[1]Not to exceed ambient standards; except sources exceeding 200 lb SO_2/day shall not exceed 6000 ppm (24 hr avg.)
Reg. 2, Div. 4 Chap. 1 4110	Incinerators		300 ppm			Reg. 2 Div.9 Chap. 1	
	Incinerators		None				
Reg. 2, Div.5 Chap. 1 5110	Heat Transfer Operation		300 ppm			Reg. 2 Div.9 Chap. 1	
	Heat Transfer Operation		None				
Reg. 2, Div. 6 Chap. 1 6110	General Combustion and Operations		300 ppm			Reg. 2 Div.9 Chap. 1	
			None				
Reg. 2, Div.16	Fuel Burning Solid or Liquid Fuel				0.5%[2]	Reg. 2 Div.9 Chap. 1	[2]Not applicable to sources emitting less than 300 ppm
Reg. 2, Div.16	Sulfur Manufacturing (New - 11/3/76)	>100 tons SO_2/day	300 ppm			Reg. 2 Div.9 Chap. 1	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:
1. BNA _____
2. RULES & REGS. X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 2 C/M Amendment	CO Boilers of Fluid Catalytic Cracker Regenerators				X 3/3/77		
	CO Boilers of Fluid Cokers Regenerator	Feed Rate >10,000 bbls/day			X 3/3/77		
	FFFSG	>250 MMBtu/hr with FGD units			X 3/3/77		
	Sulfur Recovery Plant	>100 tpd SO_2			X 3/3/77		
	Sulfuric Acid Plant				X 3/3/77		

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY BOSTON

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. #2.1	All	All			Bituminous coal < .36% Residual fuel oil < .5%	ASTM	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY CHICAGO DEPT. OF ENVIRONMENTAL CONTROL

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
17-2.5 (3)	Space heating equipment				1.0%	ASTM	Higher sulfur fuel can be used if SO_2 emissions are controlled.
	Industrial processes and power plants				1.0%		
	Electrical generating				1.0%		
1702.5(4)	All equipment(1)		500 ppm			EPA Ref.	(1) Except equipment using fuel for heat and the sulfur emission is due to sulfur content of fuel.

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY DADE COUNTY

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
24-17	Fossil fuel steam generator (new)		< .8 lb/10^6 Btu (liquid) < 1.2 lb/10^6 Btu (solid)			As specified by department	
24-17	Fossil fuel steam generator (exist)		< 1.1 lb/10^6 Btu (liquid) < 1.5 lb/10^6 Btu (solid)				

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY DENVER

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
.7-1	All	All	< 500 ppm			Method approved by department	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY JEFFERSON CO. AIR POLLUTION CONTROL DISTRICT
(KENTUCKY)

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. V Sec. 3 4)	Process Gas Stream		2000 ppmv				
Reg V Sec. 4 4) a)	Indirect Heat Exchanger						
	Gaseous Fuel		$Y = 7.22x^{-0.4106}$				Y = SO_2 emission lb/MMBtu
	Liquid Fuel		$Y = 9.46x^{-0.374}$				x = heat input MMBtu/hr

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY PHILADELPHIA

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
3-207	All	All			< #2 oil < 2%	Approved methods by department	After 4-1-78.
			< .3 lb/10^6 Btu		< .3% #4 oil		
			< 3 lb/10^6 Btu		#5 or #6 oil < .3%		
Reg. 3 Section 3-207	All	All (non-commercial fuel users)	< 640 ppm				
Reg. 3 Section 3	All	All			Bituminous coal < .3% Anthracite coal < .3%		

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SO_2 EMISSION STANDARD / CH REQUIREMENTS

AGENCY PUGET SOUND AIR POLLUTION CONTROL AGENCY

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 9.07b.	All	All	< 2,000 ppm		< 2% for oil < 1% for coal < .3% for #1 oil (distillate) < .5% for #2 distillate oil	Test shall cover 15 min. or 30% of operating time, whichever is less	

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SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY ST. LOUIS

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Section 18	Fuel burning equipment	> 2,000 x 10^6 Btu/ hr.			< 2% oil or coal	ASTM	
Section 18	Fuel burning equipment	< 2,000 x 10^6 Btu/ hr.			< 2% oil or coal	ASTM	
Section 21	Fuel burning equipment (existing)	All	< 2,000 ppm			Public Health Service 999 AP-13	
Section 21	Fuel burning equipment (new)	All	< 500 ppm			Public Health Service 999 AP-13	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY SOUTH COAST AQMD
(LOS ANGELES)

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 431.1 a)	Natural Gas Combustion[1]		80 ppm H_2S				[1]List of exceptions - See Regs.
c)	Refinery or Process Gas Combustion [1]		800 ppm H_2S				
Rule 431.2 a)	Liquid Fuel Combustion[2]				0.5% Sulfur		
Rule 431.2 b)	Electric Power Plant Steam Generators Liquid Fuel Combust.				0.25% S[2]		[2]List of exceptions - See Regs.
Rule 431.3	Solid Fossil Fuel Combustion[3]		0.56 lb/MMBtu				[3]List of exceptions - See Regs.
Rule 468	Sulfur Recovery Unit		500 ppm (15 min. avg.)				
			198.5 lb/hr.				
Rule 469	Sulfuric Acid Units		500 ppm (15 min avg.) 198.5 lb/hr				
Rule 218	Steam Generators	>250 MMBtu/hr		X 10/1/78			
	Sulfuric Acid Plant			X 2/1/77			
	Sulfur Recovery Plant			X 2/1/77			
Rule 218	CO Boilers - FCCU Regenerators			X 2/1/77			
	Fluid Cokers	>10,000 bbls/day		X 2/1/77			

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY WAYNE COUNTY

DOCUMENTATION:
1. RNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
6.3A	Electric power plant and steam generators	All			Pulverized coal < 1.5% Other coal < .75% Distillate oil 1 + 2 < .3% Crude and heavy oil 4, 5, 6 < 1%	ASTM	
6.3A	Residential space and water heating	All			Coal < .30% Distillate oil 1 + 2 < .3% Crude and heavy oil 4, 5, 6 < 1%	ASTM	
6.3A	All other sources	All			Coal < .75% Distillate oil 1 + 2 < .3% Crude and heavy oil 4, 5, 6 < 1%	ASTM	

SO_2 EMISSION STANDARD / CM REQUIREMENTS

AGENCY WAYNE COUNTY (Cont.)

DOCUMENTATION:
1. BNA
2. RULES & REGS. X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQ'D (Effective Date)	FUEL S MONITORING OPTION	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
6.3A	All sources not specifically named	All	300 ppm	At request of director		Public Health Service Document 999 AP-13	
6.3C	Sulfuric acid plant		< 6.5 lb/ton acid	At request of director		Public Health Service Documents 999 AP-13	

APPENDIX C

STATE-ADOPTED NO_x REGULATIONS FOR EXISTING SOURCES

Of the agency regulations reviewed, the following were found not to have some form of NO_x emission limitation for existing sources.

States

- Alaska
- Arkansas
- Colorado
- Iowa
- Kansas
- Maine
- Michigan
- Mississippi
- Missouri
- New Hampshire
- New Jersey
- North Dakota
- Oregon
- Pennsylvania
- Puerto Rico
- Rhode Island
- South Carolina
- South Dakota
- Utah
- Virgin Islands
- Washington
- West Virginia
- Wisconsin

Locals

- Allegheny County
- Boston
- Chicago
- Dade County
- Denver
- Puget Sound
- St. Louis
- Wayne County

For specific details of a given state, the reader is referred to Vomume III of this report which contains the text of the regulations cited.

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALABAMA AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
8.1	New Combustion Sources 1/18/72)				Method 7	
8.1.1	Gas-fired boiler	>250 MMBtu/hr	0.2 lb/MMBtu		Method 7	
8.1.2	Oil-fired boiler	>250 MMBtu/hr	0.3 lb/MMBtu		Method 7	
8.1.3	Coal-fired boiler	>250 MMBtu/hr	0.7 lb/MMBtu		Method 7	
8.2	Nitric Acid Plants		5.5 lb/ton 100% acid		Method 7	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY ARIZONA STATE DEPT OF HEALTH

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
R9-3-701	Fuel Burning Equipment "New Sources" (Gaseous)		0.2 lb/MMBtu Max 2 hr. ave.		EPA Ref.	
	(Oil)		0.3 lb/MMBtu Max 2 hr. ave.			
	(Coal)		0.7 lb/MMBtu Max 2 hr. ave.			
R9-3-702	Nitric Acid Plants "New Sources"		3 lb/ton acid produced Max 2 hr. ave.		EPA Ref.	
	"Existing Sources"		5.5 lb/ton acid produced Max 2 hr. ave.			

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY CALIFORNIA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
E,4,e	Fuel Burning Equip		140 lb/hr			
E,5,d	Steam Generators	>250 x 10^6 Btu/hr		Yes*		* as NO_2
E,5,d	Nitric Acid Plant	All		Yes*		*CO_2 and O_2 to be measured also

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY CONNECTICUT

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
19508-5	Stationary Sources				Method 7	
19508-22	Gas-fired Fuel Burning Equip.	5 $\times 10^6$ Btu/hr	.2 lb/10^6Btu heat input*		Method 7	*As NO_2
19508-22	Oil-fired Fuel Burning Equip.	5 $\times 10^6$Btu/hr	.3 lb/10^6Btu*		Method 7	
19508-22	Coal-fired Fuel Burning Equipment (New)	5 $\times 10^6$Btu/hr	.7 lb/10^6Btu*		Method 7	
19508-22	Coal-fired Fuel Burning Equipment (Old)	5 $\times 10^6$Btu/hr	.9 lb/10^6Btu*		Method 7	
19508-22	Stationary Gas Turbine	5 $\times 10^6$Btu/hr	.9 lb/10^6Btu*		Method 7	
19508-22b	Nitric Acid Plant	All	5.5 lb/ton produced		Method 7	
19508-22c	Other Sources	All	700 ppm*		Method 7	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY DELAWARE (1977)

DOCUMENTATION:

1. BNA
2. RULES & REGS
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. XII Section 1 + 2	Fuel burning equip. (gas)	> 500 x 10^6 Btu/hr	.2 lb/10^6 Btu	Yes	Method #7 (Method #3 for O_2, CO_2, and CO)	
Reg. XII Section 1 + 2	Fuel burning equip. (oil)	> 500 x 10^6 Btu/hr.	.3 lb/10^6 Btu	Yes		NO_x as NO_2
Reg. XII Section 1 + 2	Fuel burning equip. (coal)	> 500 x 10^6 Btu/hr.	.7 lb/10^6 Btu	Yes		Weighted factor will be used for mixed fuel.
Reg. XX Section 2.4	Fuel burning equip. (new, gas)	> 250 x 10^6 Btu/hr.	.2 lb/10^6 Btu	Yes		Extensive CM required following Fed. outline
Reg. XX Section 2.4	Fuel burning equip. (new, liquid)	> 250 x 10^6 Btu/hr.	.3 lb/10^6 Btu	Yes		
Reg. XX Section 2.4	Fuel burning equip. (new, coal)	> 250 x 10^6 Btu/hr.	.7 lb/10^6 Btu	Yes		
Reg. XX Section 2.4	Fuel burning equip. (new, mixed)	> 250 x 10^6 Btu/hr.	$Q = \frac{X(.2) + Y(.3) + Z(.7)}{X + Y + Z}$ (1)	Yes		(1) Q = SO_2 output X = % heat from gas Y = % heat from liq. Z = % heat from coal
Reg. XX Section 3.2	Nitric acid plant (new)	All	< 3 lb/ton and expressed as HNO_3	Yes for NO_x		

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY DEPT. OF ENVIRONMENTAL SERVICES
GOVERNMENT OF THE DISTRICT OF COLUMBIA

DOCUMENTATION:
1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
8-2:706 (b)	Fossil fueled steam generators	> 100 x 10^6 Btu/hr. (gaseous)	.20 lb/Btu (2 hr. avg.)	Yes*		NO_x as NO_2
8-2:706 (b)	Fossil fueled steam generators	> 100 x 10^6 Btu/hr. (liquid)	.30 lb/Btu (2 hr. avg.)	Yes*		NO_x as NO_2
8-2:706 (b)	Fossil fueled steam generators	> 100 x 10^6 Btu/hr. (solid)	.70 lb/Btu (2 hr. avg.)	Yes*		NO_x as NO_2; except lignite

* If source > 100 tons/yr.

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY FLORIDA DEPT. OF POLLUTION CONTROL

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
17-2.04(6e)	FFSG Gaseous Fuel	>250 MMBtu New Sources	0.20 lbs/MMBtu Max. 2 hr. Ave.			
	FFSG Liquid Fuel	>250 MMBtu New Sources	0.30 lbs/MMBtu Max. 2 hr. Ave.			Regulations for NO_x limits for existing sources were to have been passed 7/1/75
	FFSG Solid Fuel	>250 MMBtu New Sources	0.70 lbs/MMBtu Max. 2 hr Ave.			
17-2.04(6g)	Nitric Acid Plants	All plants after 7/1/75	3 lbs/ton 100% acid produced			

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY GEORGIA DEPT. OF NATURAL RESOURCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
391-3-1 2d4)	Fuel Burning Equipment 1) Coal		0.7 lb/MMBtu		State Approved Methods	
	2) Oil		0.3 lb/MMBtu			
	3) Gas		0.2 lb/MMBtu (NO_x as NO_2)			
2i1)	Nitric Acid Plant Constructed before 1/1/72		25 lbs/ton 100% acid produced	X	State Approved Methods	
	Nitric Acid Plant Constructed after 1/1/72		3 lbs/ton 100% acid produced	X		
2s1)	All NO_x sources except fuel burning equip.	Stack height <300 ft.	$N = 9300(\frac{hs}{300})^3$		State Approved Methods	
	All NO_x sources except fuel burning equip.	Stack height >300 ft.	$N = 9300(\frac{hs}{300})^2$			
			where: hs = stack height N = lb/hr NO_x as NO_2			

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY ILLINOIS EPA

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 207	Fuel Combustion Sources (New - April 1972)					
	(1) Gas FFF	>250 MMBtu/hr	0.2 lb/MMBtu		Method 7	
	(2) Liquid FFF	>250 MMBtu/hr	0.3 lb/MMBtu			
	(3) Solid FFF	>250 MMBtu/hr	0.7 lb/MMBtu (1 hr. max.)			
	Fuel Combustion Sources[1] (Existing - Apr. 1972)				Method 7	[1] In Chicago and St. Louis metro area only
	(1) Gas or Liquid	>250 MMBtu/hr	0.3 lb/MMBtu			
	(2) Solid	>250 MMBtu/hr	0.9 lb/MMBtu			
	Weak Nitric Acid Plants (New - April 1972)				Method 7	
	(1) Production		3 lb/ton 100% acid produced			
	(2) Acid storage tank vents		0.1 lb/ton 100% acid produced			
	Weak Nitric Acid Plants (Existing - Apr. 1972)				Method 7	
	(1) Production		5.5 lb/ton 100% acid produced			
	(2) Acid Storage Tank Vents		0.2 lb/ton 100% acid produced			
	Concentrated Nitric Acid Plants		3 lb/ton 100% acid produced 225 ppm		Method 7	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY ILLINOIS EPA

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 207	Nitric Acid Concentrating Processes		3 lb/ton 100% acid produced		Method 7	
	Industrial Processes[1] (New - April 1972)	>100 ton/yr acid used, or >1 ton/yr NO_x	5 lb/ton 100% acid used		Method 7	
	Industrial Processes[1] (Existing - April 1972)	>100 ton/yr acid used, or >1 ton/yr NO_x	10 lb/ton 100% acid used		Method 7	[1]Nitrations and/or oxidation using HNO_3

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY INDIANA AIR POLLUTION CONTROL BOARD

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
AFC-17	Fuel Burning Equipment	>250 MMBtu/hr. (gas fired)	0.2 lb/MMBtu		Method 7	All new sources and any any existing sources in areas where the primary ambient air standards are being exceeded
		>250 MMBtu/hr (oil fired)	0.3 lb/MMBtu		Method 7	
		>250 MMBtu/hr (coal fired)	0.7 lb/MMBtu		Method 7	

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY KENTUCKY DIV. OF AIR POLLUTION

DOCUMENTATION:

1. BHA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
401-KAR-1:060 Sec. 16	EXISTING SOURCES Nitric Acid Plants (4/9/72)		5.8 lb/ton 100% acid	X	Method 7	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY LOUISIANA AIR CONTROL COMMISSION

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X (Most Recent)
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Sec. 26.4	Nitric Acid Plants		6.5 lbs/ton 100% acid produced[1] [2] (Expressed as NO_2)		Method 7	[1]Four hour exemption for plant start-up. [2]Four hour exemption for upset conditions. Report follow within seven days of upset.

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY MARYLAND

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
.04 G 1a	Fuel burn equip. (gaseous fuel) after 12 May 72	250 Btu/hr.	.2 lb/10^6 Btu (2 hr. avg.)		State of Maryland Rules	NO_2
.04 G 1b	Fuel burn equip. (liquid fuel) after 12 May 72	250 Btu/hr.	.3 lb/10^6 Btu			NO_2
.04 G 1c	Fuel burn equip. (solid fuel) after 12 May 72	250 Btu/hr.	.5 lb/10^6 Btu			NO_2
.04 G 2	Fuel burn equip. prior to 12 May 72		< rate attainable by control technology			NO_2
.04 H	Nitric acid plants		< 3 lb/ton acid produced			NO_x

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY MASSACHUSETTS

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
2.5.1	Fossil Fuel Utilization Facilities	>250 x 10^6 Btu/hr	.3 lb/10^6 Btu	Director may require	Fed. Reg. Method 7	Except gas turbine and diesel eng.
2.5.2	Industrial Facilities	All	250 ppm			

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
APC4-D	Indirect Heating Equipment (New - 1/24/77)					
	Solid Fuels		0.7 lb/MMBtu[1]		Method 7	[1]Several regions and unit capacity sizes
	Liquid Fuels		0.2 lb/MMBtu[1]		Method 7	
	Gaseous Fuels		0.3 lb/MMBtu[1]		Method 7	
APC16-B	Nitric Acid Plants (Existing - 8/17/71)		40 lb/ton 100% acid		Method 7	
APC16-C	Nitric Acid Plants (New - 8/17/71)		3 lb/ton 100% acid		Method 7	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEBRASKA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 10	Nitric Acid Plant		5.5 lb/ton acid* or 400 ppm whichever is more stringent		Fed. Method or those specified by Director	* As NO_2

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA

DOCUMENTATION:

1. BHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
16.1.4.1	Fossil Fuel Burning Steam Generators (New, gaseous)	>250 x 10^6 Btu/hr	<.2 lb/10^6 Btu*	Fed. Reg.	Fed. Methods	*as NO_2
16.1.4.2	Fossil Fuel Burning Steam Generators (New, liquid)	>250 x 10^6 Btu/hr	<.3 lb/10^6 Btu	Fed. Reg.	Fed. Methods	[1] O = sulfur output X = % of heat input from gaseous fuel
16.1.4.3	Fossil Fuel Burning Steam Generators (New, solid except lignite and fuel with 25% coal refuse)	>250 x 10^6 Btu/hr	<.7 lb/10^6 Btu	Fed. Reg.	Fed. Methods	Y = % of heat input from liquid fuel Z = % of heat input from solid fuel
	Fossil Fuel Burning Steam Generators (New, mixed)	>250 x 10^6 Btu/hr	$O = \frac{.2X + .3Y + .7Z}{X + Y + Z}$	Fed. Reg.	Fed. Methods	
16.4	Nitric Acid Plants (New)	All (as 100% acid)	<3 lb/short ton* of acid	Fed. Reg.	Fed. Methods	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
603	Coal Burning Equip (New - 9/1/71)	>250 MMBtu/hr	0.45 lbs/MMBtu			
	(Existing - 9/1/71)	>250 MMBtu/hr	0.7 lbs/MMBtu			
604	Gas Burning Equip. (New - 1/10/72)	$>10^6$ MMBtu/yr	0.2 lb/MMBtu			
	(Existing - 1/10/72)	$>10^6$ MMBtu/yr	0.3 lb/MMBtu			
606	Oil Burning Equip.	$>10^6$ MMBtu/yr	0.3 lb/MMBtu			

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW YORK

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
224.1	Nitric Acid Plants	30 - 70% acid	<3 lb NO_2/ton acid per 2 hr	Yes	State of New York	Details given for C.M. in rules
227.5	Stationary Combustion Installations (solid fuel)	250 x 10^6 Btu/hr	.7 lb $NO_2/10^6$ Btu	Yes 1 July 74	State of New York	Details for C.M. given in rules
227.5	Stationary Combustion Installations (oil)	250 x 10^6 Btu/hr	.3 lb $NO_2/10^6$ Btu	Yes 1 July 74	State of New York	Details for C.M. given in rules
227.5	Stationary Combustion Installations	250 x 10^6 Btu/hr	.2 lb $NO_2/10^6$ Btu	Yes 1 July 74	State of New York	Details for C.M. given in rules

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY N. CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
0519	Oil or gas fired boilers	>250 MMBtu/hr	0.6 lb/MMBtu		EPA Method 7	
	Coal fired boilers	>250 MMBtu/hr	1.3 lb/MMBtu			
	Nitric Acid Plants		5.8 lb/ton acid produced			
	Sulfuric Acid Plants (Chamber Process)		5.5 lb/ton acid produced			

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY OHIO EPA

DOCUMENTATION:

1. RNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
3745-23-06	Combustion Sources					
	New 1/1/74 (Gas-Fired)	>250 MMBtu	0.2 lb/MMBtu[1]			[1]Also, all sources in Priority I regions, i.e., urban areas >200,000 population.
	New 1/1/74 (Oil-Fired)	>250 MMBtu	0.3 lb/MMBtu[1]			
	New 1/1/74 (Coal-Fired)	>250 MMBtu	0.9 lb/MMBtu[1]			
	Nitric Acid Plants		5.5 lb/ton 100% acid produced			

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY OKLAHOMA AIR QUALITY SERVICE

DOCUMENTATION:
1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., calculations, exemptions malfunctions, etc.
18.21	Fuel Burning Equip. (New - After 12/14/71)					
	Gas	>50 MMBtu	0.2 lb/MMBtu			Max. 2 hr. avg.
	Liquid	>50 MMBtu	0.3 lb/MMBtu			Max. 2 hr. avg.
	Solid	>50 MMBtu	0.7 lb/MMBtu			Max. 2 hr. avg.
18.22	New Nitric Acid Plants (After 12/14/71)		3 lb/ton 100% acid produced			

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY TENNESSEE DIVISION OF AIR POLLUTION CONTROL

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
1200-3-6-.04	Air Contaminant Sources (New - 4/3/72)	>250 MMBtu/hr			Method 7	
	Gaseous Fuel		0.2 lb/MMBtu[1]			[1]Maximum 2 hour average NO_x as NO_2
	Liquid Fossil Fuel		0.3 lb/MMBtu[1]			
	Solid Fossil Fuel		0.7 lb/MMBtu[1]			
1200-3-7-.08 2 a)	Nitric Acid Plant (Existing - 4/3/72)		5.5 lb/ton acid produced Max. 2 hr avg. OR 400 ppm[2]		Method 7	[2]More restrictive shall apply. NO_x measured as NO_2
1200-3-7-.08	Nitric Acid Plant (New - 4/3/72)		3 lb/ton acid produced Max. 2 hr avg. OR 209 ppm[3]		Method 7	[3]More restrictive shall apply. NO_x as NO_2

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY TEXAS AIR CONTROL BOARD

INCORPORATION:

1. SIP X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
131.09.00.001	"Opposed fired" gas fired Steam Generator (1)	>600M lbs/hr steam	0.7 lb/MMBtu (Max 2 hr. avg)		State Method	(1) Houston-Galveston and Dallas-Fort Worth AQCR only
	"Front fired" gas fired Steam Generator (1)	>600M lbs/hr steam	0.5 lb/MMBtu (Max 2 hr. avg)			
	"Tangential fired" gas fired Steam Generator (1)	>600M lbs/hr steam	0.25 lb/MMBtu (Max 2 hr.avg)			
.002	Nitric Acid Plants		600 ppm		State Method	

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY VERMONT

DOCUMENTATION:

1. BHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
5-251, 1	Stationary combustion installations (gaseous fuel)	> 250 x 10^6 Btu	.2 lb/10^6 Btu*		Fed. Methods	* As NO_x
5-251, 1	Stationary combustion installations (solid fuel)	> 250 x 10^6 Btu	.3 lb/10^6 Btu*		"	
5-251, 1	Stationary combustion installations (solid fuel)	> 250 x 10^6 Btu	.7 lb/10^6 Btu*		"	

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGINIA

DOCUMENTATION:

1. BNA X
2. RULES & REGS
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
4.04	Nitric acid plants	> 300 tons/day of acid produced	5.5 lb/ton acid as NO_2	Yes		[a] CO_2 + O_2 will be measured also to convert data.
5.04	Fossil fuel fired steam generators (new)	> 250 x 10^6 Btu/hr		Yes[a]		
5.04	Nitric acid (new)	All		Yes		

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY WYOMING DEPT. OF ENVIRONMENTAL QUALITY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Chap. I Sec. 10	Gas fired fuel burning equipment (new)		0.2 lbs/MM Btu		Method 7	All NO_x standards requirements shall not apply to internal combustion engines < 200 MM Btu
	Gas fired fuel burning equipment (existing)		0.23 lbs/MM Btu			
	Oil fired fuel burning equip. (new)	> 10^6 Btu/hr	0.3 lbs/MM Btu			
		< 10^6 Btu/hr.	0.6 lbs/MM Btu			
	Oil fired fuel burning equip. (existing)	> 250 MM Btu/hr.	0.46 lbs/MM Btu			
		< 250 MM Btu/Hr.	0.60 lbs/MM Btu			
	HNO_3 plants (new)		3 lb/ton acid produced (max. 2 hr. ave.)			
	HNO_3 plants (existing)		5.5 lb/ton acid (max. 2 hr. ave.)			
	Solid fossil fuel burning equip. (New)		0.70 lb/MM Btu		Method 7	Except lignite
	Solid fossil fuel burning equip. (existing)		0.75 lb/MM Btu		Method 7	Except lignite

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:
1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. 2, Div.14	Heat Transfer Operation (New - 4/19/72)					
	Gaseous Fuel	>250 MMBtu/hr.	125 ppm[1]		Reg. 2, Div. 14 14114	[1]Corrected to 3% O_2
	Liquid Fuel	>250 MMBtu/hr	225 ppm[1]			
	Heat Transfer Operation	>1750 MMBtu/hr	175 ppm[1]		Reg. 2, Div. 14 14114	
		>1750 MMBtu/hr	300 ppm[1]			
Reg. 2, C/M Amendment	Nitric Acid Plants				Reg. 2, Div. 14 14114	
	New - 9/7/77			X 3/3/77		
	Existing - 9/7/77	Production >300 tons/day 100% nitric acid		X 3/3/77		

NO_x EMISSION STANDARD / CH REQUIREMENTS

AGENCY JEFFERSON CO. AIR POLLUTION CONTROL DISTRICT
(KENTUCKY)

DOCUMENTATION:
1. BHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. V Sec. 2 4) a)	Process Operations		300 ppm as NO_2[1]			[1]May exceed 300 ppm if discharge is not visible.

NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY PHILADELPHIA

DOCUMENTATION:

1. BHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Reg. VII Section II	Fuel burning equipment	> 250 x 10^6 Btu/hr.	< .2 lb/10^6 Btu* gaseous fuel (2 hr. avg.) < .3 lb/10^6 Btu* solid or liquid fuel (2 hr. avg.)			* As NO_2.
Reg. VII Section III	Nitric acid plant	All	< 3 lb/ton acid* (2 hr. avg.)			

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NO_x EMISSION STANDARD / CM REQUIREMENTS

AGENCY SOUTH COAST AQMD
(LOS ANGELES)

DOCUMENTATION:
1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 474 a)	Fuel Burning Equipment					
	Gas	>555 but < 1786 MMBtu per hour	300 ppm[1] as NO_2			[1]Calculated at 3% O_2 15 min. avg.
	Liquid or Solid	>555 but < 1786 MMBtu per hour	400 ppm[1] as NO_2			
	Gas	>1786 but < 2143 MMBtu per hour	225 ppm[1] as NO_2			
	Liquid or Solid	>1786 but < 2143 MMBtu per hour	325 ppm[1] as NO_2			
	Gas	>2143 MMBtu/hr	125 ppm[1] as NO_2			
	Liquid or Solid	>2143 MMBtu/hr	225 ppm[1] as NO_2			
Rule 474 b)	Steam Generating Equipment	>555 MMBtu/hr				
	Gas		125 ppm[1] as NO_2			
	Liquid or Solid		225 ppm[1] as NO_2			

NO_x EMISSION STANDARD / CH REQUIREMENTS

AGENCY SOUTH COAST AQMD
(LOS ANGELES)

DOCUMENTATION:
1. BHA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions malfunctions, etc.
Rule 475	Electric Power Generating Equipment (New - 5/7/76)	>50 MMBtu/hr				
	Gas		80 ppm[1] as NO_2			
	Liquid		160 ppm[1] as NO_2			
	Solid		225 ppm[1] as NO_2			
Rule 476	Steam Generators (New - 5/7/76)	>50 MMBtu/hr				
	Gas		125 ppm[1] as NO_2			[1] Calculated at 3% O_2 15 min. avg.
	Solid or Liquid		225 ppm[1] as NO_2			
Rule 218	Steam Generators	>250 MMBtu/hr		X (CO_2/O_2, also) 2/1/77		
	Nitric Acid Plants (New - 10/1/78)			X 10/1/78		
	Nitric Acid Plants Existing - 10/1/78 >300 tpd			X 10/1/78		

APPENDIX D

STATE-ADOPTED REGULATIONS FOR SULFUR COMPOUNDS (OTHER THAN SO_2) FROM EXISTING SOURCES

Of the agency regulations reviewed, the following were found not to have some form of emission limitation for sulfur compounds, other than SO_2, from existing sources:

States

- Arkansas
- California
- Delaware
- District of Columbia
- Hawaii
- Indiana
- Maine
- Maryland
- Massachusetts
- Michigan
- North Dakota
- Puerto Rico
- Rhode Island
- Utah
- Vermont
- Virgin Islands

Local

- Boston
- Dade County
- Denver
- Puget Sound

For specific details of a particular regulation within a given state, the reader is referred to Volume III of this report which contains the text of the regulations cited.

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALABAMA AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
5.1.5	Process Gas Stream		150 ppm H_2S		EPA Reference	
5.3.2	Petroleum Refineries handling gas containing >0.1 gr H_2S/SCF		0.1 gr H_2S/SCF(1)		EPA Reference	(1) If greater than 0.1 gr/SCF must be burned to insure ambient standards for H_2S are not exceeded.
5.4.2	Kraft Pulp Mills		1.2 lb H_2S/ton pulp		EPA Reference	
5.2.1	Sulfuric Acid Plants (existing - 1/18/72)		0.5 lb acid mist/ ton 100% acid 0.2 lb SO_3/ton 100% acid		Method 8	
5.2.2	Sulfuric Acid Plant (New - 1/18/72)		0.15 lb acid mist/ ton acid (Max 2 hr. ave.)		Method 8	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALASKA DEPT. OF ENVIRONMENTAL CONSERVATION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
18 ACC 50.060	Kraft Mill-Recovery furnace stack		5 ppm H_2S	5/26/72		
	Digesters and evaporators noncondensibles		None(1)			(1) Reduced to the equiv. of thermal oxidation in lime kiln.

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY ARIZONA STATE DEPT OF HEALTH

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	*CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
R9-3-404	Sulfuric Acid Plants ("New Plants")		0.15 lb acid mist/ ton acid		EPA Ref.	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY COLORADO AIR POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Reg 1 III.B.6	Sulfuric Acid Production		0.15 lb acid mist/ ton 100% acid			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY CONNECTICUT

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
19508-19b	Sulfuric Acid Plants	All	3.25Kg/met. ton			SO_x
19508-19c	Sulfur Recovery Plants	All	.01 Kg/Kg process			SOx
19508-19e	Sulfite Pulp	All	4.5 Kg/met. ton of pulp			SO_x
19508-19f	All Other Process Sources	All	500 ppm effective 14 Nov. 75			SO_x

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY FLORIDA DEPT. OF POLLUTION CONTROL

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
17-2.04(6d)	Kraft Pulp Mills Black Liquor Recovery Furnace	Existing Sources (after 7/1/75)	17.5 ppm H_2S dry gas basis; or 0.5 lbs/3000 lbs black liquor solids			Whichever standard is more restrictive
17-2.04(6d)		New Sources	1 ppm H_2S dry gas basis; or 0.03 lbs/3000 lbs black liquor solids fed			Whichever standard is more restrictive
17-2.04(6b)	Sulfuric Acid Plants	New Sources	0.15 lbs/ton 100% H_2SO_4 produced (Acid Mist)			

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY GEORGIA DEPT. OF NATURAL RESOURCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
391-3-1-.02 2j1)	H_2SO_4 Plants Constructed before 1/1/72		0.15 lbs acid mist/ ton 100% acid		State Approved Methods	
	Constructed after 1/1/72		0.15 lbs acid mist/ ton 100% acid		State Approved Methods	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY IDAHO DEPT. OF HEALTH & WELFARE

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
O. Sec. 3	Kraft Pulp Mills - Recovery Furnace Stack		0.5 lbs/ton pulp 17.5 ppm H_2S[1]	X[3]		[1] More restrictive limit
	Digesters and multi-effect evaporators		None[2]			[2]Reduction equivalent to thermal oxidation in lime kiln
NSPS	NSPS - 10/10/75					
U. Sec 3.L	Kraft Pulp Mills					[3]C/M also on lime kiln
	Recovery Furnace		5 ppm (24 hr. avg) 0.12 lb/ton pulp (24 hr. avg.) 40 ppm (1 hr avg.)	X		
	Lime Kiln		40 ppm 0.2 lb/ton pulp	X		
	All Other TRS Sources		0.2 lb/ton pulp			
U. Sec. 3 E	Sulfuric Acid Plant		0.15 lb acid mist per ton 100% acid			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY ILLINOIS EPA

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Rule 204	Process Emission		0.15 lb acid mist per ton acid			
	Sulfuric Acid Usage	<1300 ton/yr usate	0.1 lb acid/hr			
	Sulfuric Acid Usage	>1300 ton/yr usage	0.5 lb acid/hr			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY IOWA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
4.3(3) d	Sulfuric Acid Plant	All	<0.5 lb H_2SO_4 / ton of 100% acid		State Method	

>002

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY KANSAS STATE DEPT. OF HEALTH

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
28-19-22 B)	Process Gas Stream (New - 1/1/72)		10 gr H_2S/100 ft^3			

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY KENTUCKY DIV. OF AIR POLLUTION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X(Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
401-KAR-3:060	EXISTING SOURCES					
Sec. 5	Kraft Pulp Mills (4/9/72) Recovery Furnace		15 ppm (daily ave) 40 ppm (1 hr max)		EPA Ref.	
Sec. 8	Process Gas Stream		10 gr/100ft^3 of process gas		EPA Ref.	As H_2S
Sec. 7	Sulfuric Acid Plant (Apr 9, 1972)		0.9 lb acid mist/ ton acid		Method 8	

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X (Most Recent)
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

AGENCY LOUISIANA AIR CONTROL COMMISSION

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Sec. 24.7.2	Sulfuric Acid Plants		0.5 lb acid mist per ton 100% acid produced		Method 8	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY MINNESOTA POLLUTION CONTROL AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
APC15-B	Sulfuric Acid Plant (Existing - 8/17/71)		1.7 lb acid mist per ton 100% acid		Method 8	
APC15-C	Sulfuric Acid Plant (New - 8/17/71)		0.15 lb acid mist per ton 100% acid		Method 8	

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY MISS. AIR & WATER POLLUTION CONTROL COMMISSION

DOCUMENTATION:

1. BNA X (Most Recent)
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Sec. 4 2)	All sources (1)		1 gr H_2S/100 scf (2)			(1) Except sulfur recovery plants (2) Sources greater than 1 gr/100 scf must be incinerated
Sec. 3 2)	Kraft Pulp Mills Existing 5/11/72					
	Recovery Boilers		2 lb S/ton pulp			
	Condensible TRS		None (3)			(3) Must have treatment equiv. to thermal oxidation followed w/alkaline scrub.
Sec. 6 1)	Kraft Pulp Mills New - 5/11/72		Fed NSPS			
Sec. 4 2)	Sulfuric Acid Plant		0.5 lb acid mist/ ton acid			
			0.2 lb acid mist/ ton acid			

2515

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY MISSOURI DEPT. OF NATURAL RESOURCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
10 CSR(1) 10-3.100 and 10 CSR(1) 10-4.150 and 10 CSR(1) 10-5.150	Processes - Existing 2/24/71		70 mg acid mist/m^3		SO_3-H_2SO_4 Shell Development Co. Method	(1) All three sets of regulations set the same limits for these categories.
	Processes - New 2/24/71		35 mg acid mist/m^3			

>902

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY MONTANA DEPT. OF HEALTH AND ENVIRONMENTAL SCIENCES

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
16-2.14 (1) - S 1470	Kraft Pulp Mills - Recovery Furnace		0.087 lb/1000 lbs black liquor or 17.5 ppm H_2S	X	State Approved Methods	More restrictive shall apply
	- Lime Kiln			X		
	- Non Condensibles from digester & evaporator		None(1)	X		(1) Removal equiv. to thermal oxidation in lime kiln

>2082

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEBRASKA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Rule 9(3)	Industrial Source		.01 ppm H_2S (any two 30 minute periods averaged)		Methylene Blue	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
8.1.2	Primary Non ferrous Smelters (New, Copper)	All	$Y = .1X$*	Fed. Reg.	Fed. Methods	* Y ≡ Total sulfur input X ≡ Sulfur output Units - lb/hr
8.1.2	Primary Non ferrous Smelters (New, Zinc)	All	$Y = .282X^{.85}$*	Fed. Reg.	Fed. Methods	Note: eqns in rules do not give same results as allowable emission table #2
8.1.2	Primary Non ferrous Smelters (New, Lead)		$Y = .49X^{.77}$*	Fed. Reg.	Fed. Methods	
8.1.3	Primary Non ferrous Smelters (Old, copper)	All	$Y = .4X$*	Fed. Reg.	Fed. Methods	
8.2.1.1	Fuel Burning Unit	$<250 \times 10^6$ Btu/hr	$Y = .7X$**	Fed. Reg.	Fed. Methods	** Y = Sulfur output lb/hr X = heat in 10^6 Btu/hr
8.2.1.2	Fuel Burning Unit (Liquid)	$\geq 250 \times 10^6$ Btu/hr	$Y = .4X$**	Fed. Reg.	Fed. Methods	
8.2.1.2	Fuel Burning Unit (Solid)	$\geq 250 \times 10^6$ Btu/hr	$Y = .6X$**	Fed. Reg.	Fed. Methods	

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEVADA (CONTINUED)

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
8.2.1.2	Fuel Burning Unit (Combination)	$\geq 250 \times 10^6$ Btu/hr	$Y = \frac{.7L + 1.15}{L + S}$***	Fed. Reg.	Fed. Methods	*** Y ≡ sulfur output lb/hr L ≡ heat input from liquid fuel S ≡ heat input from solid fuel
8.3.1	Non fuel Burning Process	All	$E = .292P^{.904}$ $^{\Delta}$ where E >10 lb/hr	Fed. Reg.	Fed. Methods	$^{\Delta}$ E ≡ sulfur output lb/hr P ≡ sulfur input lb/hr
8.3.2	Non fuel Burning Process	All	Gas stream conc <1000 ppm where E <10 lb/hr	Fed. Reg.	Fed. Methods	
16.1.3.1	Fossil Fuel Burning Steam Generators (New, solid)	$>250 \times 10^6$ Btu/hr	$\leq .6$ lb/10^6 Btu	Fed. Reg.	Fed. Methods	
	Fossil Fuel Burning Steam Generators (New, liquid)	$>250 \times 10^6$ Btu/hr	$\leq .4$ lb/10^6 Btu	Fed. Reg.	Fed. Methods	
	Fossil Fuel Burning Steam Generators (New, combined)	$>250 \times 10^6$ Btu/hr	$E = \frac{(.6F_s + .4F_l)}{F_s + F_l}$*	Fed. Reg.	Fed. Methods	* E ≡ sulfur output (lb/hr) F_s ≡ % of heat input from solid fuel (Btu) F_l ≡ % of heat input from liquid fuel (Btu)
16.5	Sulfuric Acid Plant (New)	All (as 100% H_2SO_4)	<2 lb sulfur/ short ton of acid	Fed. Reg.	Fed. Methods	
	Sulfuric Acid Plant (New)	All (as 100% H_2SO_4)	$\frac{<.15\ H_2SO_4}{\text{Short ton of acid}}$	Fed. Reg.	Fed. Methods	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW HAMPSHIRE

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Reg. 15 III.E	Kraft Pulp Mill		2 lb. sulfur/ton pulp			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW JERSEY

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
2:27-7.2g	All	All	<10 mg/scf of SO_3 + H_2SO_4 as H_2SO_4		Methods approved by department	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
601	Kraft Pulp Mills - Recovery Furnace Stk.		0.1 lbs H_2S/ton pulp			
	- All other processes		0.2 lbs H_2S/ton pulp			
621	Natural Gas Processing Plant (Existing - 7/1/74)	>10 tons/day sulfur >20 mole percent H_2S	10 lb/100 lbs of sulfur released in plant processes			See Note
		>10 tons/day sulfur <20 mole percent H_2S	12 lb/100 lbs of sulfur released in plant processes			See Note
		>0.25 gr/100 ft^3 residue gas (>2.5 tons/day sulfur)	10 lb/100 lbs of sulfur released in plant processes			See Note
		>7.5 but <10 tons/day sulfur >20 mole percent H_2S	10 lb/100 lbs of sulfur released			See Note
		>7.5 but <10 tons/day sulfur <20 mole percent H_2S	12 lbs/100 lbs of sulfur released in plant processes			See Note

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
622	Petroleum Refinery (Existing - 7/1/74)	>5 tons/day sulfur	10 lbs/100 lbs of sulfur released in plant processes			
	(New - 7/1/74)	>5 ton/day but <30 ton/day sulfur	10 lbs/100 lbs of sulfur released in plant processes			
	(New - 7/1/74)	>30 ton/day sulfur	2 lb/100 lbs of sulfur released in plant processes			
	(Existing - 7/1/74)		5 ton/24 hrs			
627	Petroleum Processing Facility - Sulfur Recovery		10 ppm H_2S, or oxidize to SO_2			
631	Hydrocarbon Storage Facilities - Hydrocarbons containing H_2S		Various vapor recovery systems and/or floating roofs.			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
632	Sulfur Recovery Plant (Existing - 7/1/74)		12 lb sulfur/100 lb sulfur introduced to plant			
	(New - 7/1/74)	<20 ton sulfur produced	10 lb sulfur/100 lb sulfur introduced			
	(New - 7/1/74)	>20 ton sulfur produced	2 lb sulfur/100 lb sulfur introduced			
651	Sulfuric Acid Plants (Existing - 1/10/72)	<200 ton/day	5 lb sulfur/100 lb sulfur introduced (24 hr ave.)			
	(Existing - 1/10/72)	<200 ton/day(1)	7 lb sulfur/100 lb sulfur introduced (24 hr ave.)			(1) When processing H_2S
	(Existing - 1/10/72)	>200 ton/day	3 lb sulfur/100 lb sulfur introduced (24 hr. ave.)			
	(New - 1/10/72)		2 lb sulfur/100 lb sulfur introduced			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW MEXICO ENVIRONMENTAL IMPROVEMENT AGENCY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Same Date)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
652	Non Ferrous Smelters (Existing - 1/10/72)		40 lb/100 lbs sulfur introduced to smelter			
	(New - 1/10/72)		10 lb/100 lbs sulfur introduced			
673	Gasification Plants		100 ppm (1) 10 ppm (2)			(1) H_2S, CS_2, CO_3 (2) H_2S
680	Gasification Plants		0.008 lb/MMBtu of fuel introduced to gasification plant			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY NEW YORK

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Section 223.1	Petroleum Refineries (existing & operating after 31 Dec. 74)		burn process gas <50 grain per 100 scf as H_2S		State of New York	
Section 223.1	Petroleum Refineries (New)		burn process gas <50 grains per 100 scf as H_2S		State of New York	
Section 224.2	Sulfuric Acid Plants		.15 lb/ton acid of H_2SO_4 per 2 hr	Yes	State of New York	Details given in rules for C.M.

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY N. CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
0517	Sulfuric Acid Plant		0.5 lb acid mist/ ton acid		EPA Method 8	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CH REQUIREMENTS

AGENCY OHIO EPA

DOCUMENTATION:

1. BNA x
2. RULES & REGS x (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CH REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
3745-17-12	Process Gas Stream		100 grams H_2S per 100SCF[1]			[1]No emission
	Sulfuric Acid Plant		0.5 lb acid mist per ton acid 0.2 lb SO_3 per ton acid			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY OKLAHOMA AIR QUALITY SERVICE

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
16.4	Existing equip. (Before 12/1/74)		No violation of ambient standards			
16.51	New petroleum and Nat. Gas Processes (After 12/1/74)		0.3 lb H_2S/hr (95% removal of H_2S from exhaust gas)			Max 2 hr. ave.
16.31	New Sulfuric Acid Plants (After 12/1/74)		0.15 lb acid mist/ ton 100% acid		CFR 466.26	Max 2 hr. ave.

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY OREGON DEPT. OF ENVIRONMENTAL QUALITY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
25-165	Kraft Pulp Mills (New - 1/1/69)					
	(1) Recovery Furnace		5 ppm (daily avg) 0.15 lb/ton pulp (monthly avg)	X		
	(2) Lime Kiln		20 ppm (daily avg) 0.1 lb/ton pulp (monthly avg)	X		
25-165	Kraft Pulp Mills (Existing - 1/1/69)					
	(1) Recovery Furnace		10 ppm (daily avg) 0.3 lb/ton pulp (monthly avg)	X		
	(2) Lime Kilns		20 ppm 0.1 lb/ton pulp[1] (monthly avg)	X		[1]By 7/1/78
	(3) Other Sources		0.2 lb/ton pulp[1]			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY PENNSYLVANIA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
123.23	By-product coke ovens	All	< 50 grains/100 scf		Method approved by department	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY S. CAROLINA DEPT. OF HEALTH & ENVIRONMENTAL CONTROL

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Std No. 5 Sec. I	Sulfuric Acid Plants		0.5 lb acid mist/ ton 100% acid			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY TENNESSEE DIVISION OF AIR POLLUTION CONTROL

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
1200-3-7-.09 1)	Sulfuric Acid Plant (Existing - 4/3/72)		0.5 lb acid mist per ton 100% acid max. 1 hr avg.		Method 8	
1200-3-7-.09 2)	Sulfuric Acid Plant (New - 4/3/72)		0.15 lb acid mist per ton 100% acid max. 1 hr avg		Method 8	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY TEXAS AIR CONTROL BOARD

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
131.04.02.001	All sources emitting H_2S		None(1)		State Method	(1) Limits based on ambient air standards for H_2S

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGINIA

DOCUMENTATION:

1. BNA X
2. RULES & REGS
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
4.51	Sulfuric acid plant	All	< 5 mg/ft^3 H_2SO_4			
4.51	Process gas stream	All	< 15 gr/100 ft^3			
4.51	Kraft Pulp Mill	All	< 1.2 lb/ton pulp as H_2S			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY VIRGIN ISLANDS DEPARTMENT OF HEALTH

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
204-26 b)	H_2S Emissions		Not to exceed ambient air standards			

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY WASHINGTON STATE DEPT. OF ECOLOGY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
WAC-173-405-031	Kraft recovery furnace stacks		0.5 lb sulfur/ton pulp 17.5 ppm H_2S	12/28/76		Use most restrictive limit (daily averages).
	Kraft mill - lime stack kiln		50 ppm H_2S (daily ave.) 80 ppm H_2S (for two consecutive hours)	12/28/76		Compliance by 1/31/79.

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY WEST VIRGINIA

DOCUMENTATION:

1. BNA
2. RULES & REGS
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Series X Section 3.08	Refinery process gas stream	All	< 50 grain/100 cf gas		As specified by director	

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY WISCONSIN DIV. OF ENVIRONMENTAL PROTECTION

DOCUMENTATION:

1. BNA X
2. RULES & REGS X (Most Recent)
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
NR 154.12 (3)	Petroleum Refineries		0.1 grains H_2S [1] per standard ft^3		EPA Ref. Methods	[1]No emission
NR 154.18 (2)	Kraft Pulp Mills					
	Recovery Furnace Stack		0.5 lb/ton pulp[2]		EPA Ref. Methods	[2]From total recovery system
			17.5 ppm [3]			[3]From each stack
	Digesters & evaporators (Noncondensibles)		None[4]			[4]Removal equivalent to thermal oxidation in lime kiln

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY WYOMING DEPT. OF ENVIRONMENTAL QUALITY

DOCUMENTATION:

1. BNA X
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Sec. 5	Sulfuric acid plant		0.5 lb acid mist/ ton 100% acid (max. 2 hr. ave.)			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY ALLEGHENY COUNTY HEALTH DEPARTMENT

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	• CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
1809.6 B 2.1)	By-Product Coke-Oven Gas	>70 MMscf/d coke-oven gas	50 gr H_2S/100 dscf		M.D. Jacobs Anal. Chem.	
1809.6 B 2.2)	By-Product Coke-Oven Gas	<70 MM but >20 MM scf/d coke-oven gas	$A = 156E^{-0.27}$ [1]		M.D. Jacobs Anal. Chem.	[1] A = gr H_2S/100 dscf E = MM scf/day coke-oven gas produced
1809.6 B 2.3)	By-Product Coke Oven Gas	<20 MM scf/day coke oven gas	70 gr H_2S/100 dscf		M.D. Jacobs Anal. Chem.	
1810.2 B)	Sulfuric Acid Plant[2]		0.5 lb acid mist per ton acid produced		L.A. Air Pollution Control District Meth.	[2] Except desulfurization of by-product coke-oven gas.

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SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:
1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Reg. 2 Div. 3 Chap. 1 3131	Sulfuric Acid Plants		0.04 gr H_2SO_4/dscf		Reg. 2, Div. 9 Chap. 3	
3131.1	Sulfur Production		0.08 gr H_2SO_4/dscf			
Reg. 2 Div . 4 Chap 1 4110.1	Incinerators		None[1]			[1]Not to exceed ambient standards
Reg. 2, Div. 4 Chap 1 5110.1	Heat Transfer Operations		None			
Reg. 2, Div. 6 Chap. 1 6110.1	General Combustion and Operations		None			
Reg. 2, Div. 11 11101	All Sources		None			
Reg. 2, Div. 15 Chap. 1 15104	Dimethylsulfide Sources[2]		0.05 - 0.1 ppm[3]			[2]All sources except Kraft Pulp Mills
	Mercaptans Sources[2]		0.1 - 0.2 ppm [3]			[3]Range of standards depending on emission type.
Reg. 2, Div. 15 Chap. 1 15106	Kraft Pulp Mills Recovery Furnace Stack		15 ppm 40 ppm (1 hr avg.)	X 5/5/76 X 5/5/76	Reg. 2, Div. 15 Chap. 2	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY BAY AREA AIR POLLUTION CONTROL DISTRICT
(SAN FRANCISCO LOCAL)

DOCUMENTATION:

1. BMA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Reg. 2, Div.15 Chap. 1 15106 (continued)	Kraft Pulp Mills					
	Recovery Furnaces [1]		0.3 lb/ton pulp	X 5/5/76	Reg. 2, Div. 15, Chap. 2	[1]All recovery furnaces in mill.
	Lime Kiln		40 ppm (1 hr avg)	X 5/5/76		
	Lime Kiln[2]		0.15 lb/ton pulp	X 5/5/76		[2]All lime kilns in mill.
	All Other Sources		15 ppm (30 min avg.)			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY CHICAGO DEPT. OF ENVIRONMENTAL CONTROL

DOCUMENTATION:

1. BHA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
17-2.5 (4)	All equipment (1)		15 mg/m^3 sulfuric acid and/or SO_3		EPA Ref.	(1) Except equipment using fuel for heat and the sulfur emission is due to fuel sulfur content.
17-2.5 (5)	All equipment		0.01 ppm H_2S			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY JEFFERSON CO. AIR POLLUTION CONTROL DISTRICT
(KENTUCKY)

DOCUMENTATION:
1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Reg. V. Sec. 3 3)	Process Gas Stream		10 gr $H_2S/100\ ft^3$			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY PHILADELPHIA

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Reg. III Section II	All	All	< .1% by volume			Within two years must be lowered to .05% by volume.

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY ST. LOUIS

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Section 21	All (existing)	All	< 70 mg/m^3*		Public health service 999-AP-13	* $SO_3 + H_2SO_4$
Section 21	All (new)	All	< 35 mg/m^3*		Public health service 999 AP-13	

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY SOUTH COAST AQMD
(LOS ANGELES)

DOCUMENTATION:

1. BNA _____
2. RULES & REGS X
3. CURRENT SIP _____
4. AGENCY PERSONNEL _____

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
Rule 468	Sulfur Recovery Unit		10 ppm H_2S			

SULFUR COMPOUNDS (OTHER THAN SO_2) EMISSION STANDARD / CM REQUIREMENTS

AGENCY WAYNE COUNTY

DOCUMENTATION:

1. BNA
2. RULES & REGS X
3. CURRENT SIP
4. AGENCY PERSONNEL

REGULATION CITED	SOURCE CATEGORY (Affected Facility)	MIN. SOURCE CAPACITY (Qualifications)	EMISSION STANDARD (Time Period)	CM REQUIRED (Effective Date)	COMPLIANCE TEST METHOD(S)	COMMENTS i.e., extensions, exemptions, malfunctions, etc.
6.3C	Sulfuric acid plant	All	< 7 lb/ton acid*	At request of director		*SO_3
6.3D	Sulfur recovery (existing)	All	< .02 lb/lb sulfur**			**$SO_2 + SO_3 + H_2SO_4$
6.3D	Sulfur recovery after 22 July 72	All	< .01 lb/lb sulfur**			* SO_3 analysis by Public Health Service DOCUMENT 999-AP-13 H_2S - Methylene Blue Method
6.3E	Petroleum refine	All	< 100 grain/100 cf gas			
6.3G	All other sources	All	< 300 ppm			

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OPACITY

- Fossil fuel-fired steam generators (FFFSG)
- Portland cement plants
- Catalyst regenerators of fluid bed catalytic cracking units (FBCCU)
- Wood fuel-fired boilers
- Kraft recovery furnaces
- Basic oxygen process furnaces (BOPF)
- Ferroalloy electric submerged arc furnaces

NO_x	SO_2
o FFFSG	o FFFSG
o Nitric acid plants	o Sulfuric acid plants
	o Smelters

The report is organized into a separate Executive Summary and three volumes. The first volume contains an analysis of state adopted emission standards for opacity, SO_2, NO_x, malfunctions and scheduled maintenance, and continuous monitoring regulations for existing stationary sources. Volume II provides a tabular summary of key components of the applicable emission standards and regulations including source category, minimum source capacity, averaging time of standard, exemptions, etc. Volume III of the report contains the complete text of the regulations cited.

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